FIELD NOTES

R. M. ANDERSON

1912

METEOROLOGICAL SERVICE.

DOMINION OF CANADA.

INSTRUCTIONS TO OBSERVERS.

1878.

Field Notes
R.M. Anderson
Book XI.
1912
January to March

Field Notes.

From January 1st, 1912, to November 27th, 1912.

From Langton Bay, Arctic Ocean, Canada, to Baillie Islands (Cape Bathurst); back to Langton Bay; across Melville Mountains to Horton River; Langton Bay, Darnley Bay, Langton Bay; & Baillie Island. Langton Bay, across to Horton River again; to Langton Bay, Baillie Island, Liverpool Bay, Harrowby Bay, various places along west side of Franklin Bay from Smoking Mountains to Cape Bathurst, the Baillie Islands; Amundsen Gulf, Booth Island, Herschell Island, Point Barrow, Cape Smyth, Alaska, Herald Island, Bering Straits, Bering Sea, Unalaska, and North Pacific Ocean, San Francisco, & New York City, U.S.A.

Rudolph Martin Anderson,
American Museum of Natural History,
77th St. and Central Park West,
New York City, U.S.A.

BOOK XI.

1912.

Jan. 1. (Mon.) Langton Bay, Arctic Ocean N.W.T. Canada. Clear, bright morning; no wind. Moon nearly full. Starting this morning for Baillie Island with Tanhahmirk, Palaiyak, Pannigabluk and Alishuk. taking two sleds, twelve dogs and one pup. Taking one sack flour, 10-gal. can of dried ugyuk (Bearded seal) meat and blubber, sugar, tea and molasses; also two small saddles of Canton wood for the Chiefs.

Pannigabluk took, on account ~~one 12-gauge double barrelled shot gun~~, 25 brass shells, 5 boxes 12-ga. shells (125 shells), four 1-lb. plugs tobacco ("Good Value"), six large bunches of Russian leaf tobacco, one Canton skin (6 skin) tent, etc.

On trail 10.30 a.m. and camped 5.00 p.m. travelling fast most of the time. Ice smooth most of the way and snow packed hard as a pavement. Some rough ice encountered in evening. Fairly strong West or SW wind in afternoon, drifting fine particles of snow along surface of ground. Wind lowered in evening. Colder.

Jan. 1 (Mon.) No game or tracks of anything seen. The old man Iritugyuk ("Rambler"), Alingat's father, started off in morning two hours before we did, to look at his traps. About three miles out, we met him on the ice, and he walked along with us. I thought nothing about that, except that he was probably going up the coast a ways to look at more distant traps. He kept with us all day, and in the evening I found that the natives had loaded his blanket and other gear, with three frozen fish, on my sleds, and announced that he was going with us to Baillee Island — all this without saying a word to me about the matter. We have gone too far to send the old beggar back to his people, and shall have to board him awhile. To make matters worse, he hurt his foot yesterday, jammed between sled and a cake of ice, and is pretty lame. Shall either have to travel slow, or haul him on the sled.

Before we left, Alingat the old man's son, announced his amiable intention of going up the river soon, to visit Stefansson and Natkusiak for a while.

Jan. 2 (Tues.) Clear in morning, 5–6 a.m. No wind. Cold. Light westerly wind in afternoon. Sky clear all day. On trail from 8:45 a.m. to 3:00 p.m. and made pretty good progress in spite of having three passengers on board the sleds. At 11:00 a.m. passed place where Alingaks little child Ahchinett died last September. Body was interred in Earth (white mans fashion), about 100 yds. from the beach, and spot marked with a little piece of pine board with name simply. Passed through a little rough ice towards evening; and considerable dirt on the snow. The old ice cakes are mostly black. Camped about ten miles East of mouth of Horton River, about four miles east of the most Easterly smoking cliffs.

Jan. 3. (Wed.) Clear day; very cold. Full moon. Sky clouded a little in late afternoon and evening, obscuring most of the stars. Light SE wind. On trail 8:00 a.m. and reached Capt. Fritz Wolki's house, on Horton River sandspit, about 3 mi. W of mouth of river, at 12:00 M. People had been at house quite recently, and left considerable seal meat in house, and some blubber on ground outside. Ikomuk's and Billy's stores cache of Polar Bear meat made last August, had apparently been unmolested.

Jan. 3. (Wed.) Stopped at Wolki's house to boil tea and resumed travel at 1:45 p.m. Kept going until 8:00 p.m. Put on three good sticks of wood at west end of Horton River, enough for camp tonight, as there is no wood for at least 20 mi. NW of Horton River. Hauled wood about ten miles, and then about an hour before we camped the boys dumped all the wood off the sled. I was going ahead of the dogs and did not know about it until we halted to camp. Made a cold camp on the ice, and had some difficulty getting Primus stove to work, the needle being broken. Tannaumik got mad when I criticized him for throwing away the wood, and sulked. Primus stove went dry and he refused even to pass me the coal oil can or help fill the tank. Burner went cold and I had to use wood alcohol. I was cooking "mattpanyat" (doughnuts) myself, at the time, as the others had been busy outside. Told him that if he was not willing to help, he would probably want to help drink tea and eat bread after it was cooked on the Primus. He said nothing, but later asked if I was going to refuse him food. I told him that he was welcome to eat what he

Jan. 3 (Wed.) wanted to, but that when we reached Baillie Island, he could consider himself discontinued from my service unless he did what he was told to. Furthermore, he was explicitly informed as to whom was the "omelik" on this trip. Tannaumirk pretty mad and refused to eat anything but compromised on a drink of water before he went to bed.

Camped opposite eastern (or southeastern) end of Smoking Mountains — a lonely smoking hole about one mile east of us, and four or five smoking holes at intervals for about five or six miles to northwest.

Full moon (apparently) tonight and moon in sight for the whole 24 hrs. Daylight noticeably shorter here than at Langton Bay.

Jan 4 (Thurs.) Clear all day. Cold. Very light airs stirring from southeasterly direction. Up at 6:30 a.m. and after much tribulation with Primus stove got started on trail at 9:30 a.m. Reached mouth of old igloo at creek mouth (KUGRUK) at 10 p.m. Deserted snowhouse here (wood and rafters) and quite a bit of wood piled up. Stopped here for lunch and resumed trail at 3:20 p.m. Well-marked sled trail most of from here on.

Jan 4 (Thurs.) About 5:30 p.m. arrived at quite a village of Eskimos said to be two hours by sled from Baillie Island. Stayed for night in Tuluga's house. Five houses here and families of Tuluga's, Kutuktak's, Paynli's, Utok's, Kikpanna's, Nakamalluk's, "Long" Komanna's and Taulana's (from Kitligaryuit), also Punamalluk's. (Bad. Sol.)

Arctic Fox — Very few foxes have been caught in this region the present winter. Baillie Island people have killed ~~four~~ six.

Polar Bear — Polar Bears. The little trading schooner "North Star", which wintered last winter at Shingle Point, is now wintering at Nunivak ("Phillip's Island"), East of Barrow Point. ~~There~~ Atkinson-Richardson white men on the schooner and several Eskimos living around there this winter. "Jimmy" (Nunoqunny) is said to have killed eight Nanuk at Nunivak this winter. Besides several Bears have been killed by other men.

Seal — At this place there is said to be open water some distance off shore and people here occasionally get Seals. There has been open water near shore at Baillie Island all winter and the Baillie Islanders have killed plenty of Seals.

Spermophile — Aiyak, Tuluga's small boy, killed a marmot (Spermophilus parryi) which was running on the snow. It is very rare that a marmot comes out of his hole in midwinter.

Jan. 5th. (Fri.) Cloudy, foggy at 6:00 a.m. Very light westerly wind, and quite warm. Snow soon began to fall, breeze strengthened and by daylight, there was quite a blizzard from SW. There was no open water near shore yesterday, but this morning a lead opened up within sight of camp, and several men went out sealing. Decided not to go to Baillie Island today, as weather is pretty dirty, and the natives want to visit. Tannaumirk has not been here among his own people for two years and has a large fund of yarns about the Kogmollit (Eastkimos) which he likes to relate.

Capt. Joseph F. Bernard master of the "Teddy Bear", now wintering at Baillie Island, is said to have gone to Nunivak to see the "Selawik Star" started "ten sleeps" ago, in company with Nilkuskiak ("Billy"), our former employe. Billy was both Stefansson and myself for three years, but left me suddenly last August, in order to marry Akeenna daughter of Kutakak. The woman died together with her one-year-old son very soon after leaving Baillie Island last summer, and the latter woman just before Christmas and Billy has been staying with Kutakak ever since. Billy is said to have killed only four Caribou last fall on his expedition down East side of Liverpool Bay (somewhere near mouth of Mackenzie or Anderson River) also two Brown Bears.

Caribou

Barren ground Bear

Jan. 5 (Fri.) As has invariably been the case on coming to Baillie Island I am developing a fine cold in the head today - continually sneezing and eyes and nose watering.

People here in the house searching each others heads for lice apologized by saying that they caught them from Coloration Cove people last year and haven't been able to exterminate the vermin since. They prosecute the hunt vigorously, but only cover part of the territory at one round-up, and the game presses left unscathed soon re-stocks the contiguous regions. The old woman (Ca[illegible]) while "chumbing" today, was telling how much worse the native Baillie Islanders were afflicted; said that old Kanguk was continually catching parasites inside his shirt, and dropping them unhurt into his lap or on the floor. When his blanket seemed to have too many tenants he would beat it with a little stick, letting them fall on the floor, giving him a temporary respite until the bugs could crawl back again. The scandalous doings of neighbors seem to be discussed with the usual virtuous Pharasaical complacency - common even outside of the Arctic circle.

Jan. 5. (Fri.) Washing the hands and face is a never-omitted morning ceremony here. In theory, at least, cleanliness is a part of godliness, according to the missionary teaching which has penetrated this region. In this family, a minimum of water is used – about half a teacupful for each person, enough to moisten soap to anoint the face and hands. This softens the dirt enough to be evenly distributed by a towel which is never washed. And the whole business amounts to little more than a fraternal interchange of filth – to say nothing of any skin diseases which are prevalent. When I was here two years ago, practically everybody had the itch and a little girl in our party broke out with a rash resembling chicken pox within two or three days after leaving Baillie Island.

Wind lowered in evening.

Jan. 6. (Sat.) Cloudy morning. Fairly strong SE wind. Quite warm. Left some stuff at camp and started at 9:45 a.m. with light sled for Baillie Island. Breeze kept getting stronger all the time and snow falling and drifting. Quite a blizzard before we reached ship at 12:15 p.m. A howling blizzard from SE – the worst of the year, all afternoon and evening but quite warm. Sky cleared a little towards midnight and it got quite a bit colder.

Jan. 6. (Sat.) Capt. Bernard and Billy were expected back here about Jan. 1st or 2nd, but have not yet arrived. They had started out from SW sandspit straight across Liverpool Bay for Cape Dalhousie and expected to use only primus stove and snow house camps on the trip.

Jan. 7. (Sun.) Clear in evening.
Sky partially cleared in morning, and wind moderated a little, but snow still drifting pretty thickly. Colder.

Capt. Wolki has skin of a species of Tern which I am unable to identify. Shot on Baillie Island sandspit, about Sept. 28nd, 1911; killed while running along beach feeding on clams and sea foam at waters Edge. Description: ♂ L. 13 in. W. 10 3/4. Ext. 24 in. Head (measured with Calipers from base of Culmen to back of skull). B. 3/4. Tars. 1/2. Toe (to base of claw), 1/2. Middle claw 1/4. (Capt. W's measurements)

My measurements: W. 10 3/8. = 262 mm. T. 4 1/8 = 105 mm. B. 1 5/16 = 33 mm. Ts. 1 5/16 = 33 mm. Tcl. 31 mm. Depth bill 7 mm. Bill and feet flesh colored (in life). Back nearly white slightly tinged with ashy; quite dusky on back of crown. Whole under parts white, tinged with rosy pink on belly. Six outer primaries light smoky brown, with about half of inner web whitish, and paler at tips; secondaries white. Rump of wing and greater coverts same brown color as primaries. Secondary coverts very pale brownish. Lesser coverts darker, ashy brown

Jan. 7. (Sun). Tail slightly forked, forking about 16mm. deep. Rectrices white all tipped with smoky brown, the brown extending further up on inner than on outer web. Upper tail coverts and crissum white

Outline of head (Natural size)

Xema sabini; Sabine's Gull

People at Baillie Island now. On board "Rosie H." Capt. F. Wolki, wife ↑ Iguana a Mary. mother-in-law ↑ Kañaraaik. two children, Jim Hill (mute). Eskimos: ↑ Tadjuk Jim-bone" and wife Nūnaaina; "Richard" ↑ Ukjasinauk and wife ↑ Mamayauk "Dora"; Inuñalina. Onshore Nauyavāluk and wife Tashuwau'na (55-60). Añ.a'shinauk-paluk, wife Agnaviyatk, and little girl Mamayauk (ca. 10 yrs); Kiñaktuk "Cockeye" wife Kōpeatk, and son Ovayauk (ca. 17 yrs). Two brothers (Inuktugmiut dolls) Kiviuna (brother of Kiñaktuk) and wife ↑ Amaraunna and Anaktuna and 15 yr. daughter Ahnaraiauk one boy ("White Portuguese" Eyo.) and girl (about 2 yrs) Ilkaktuk (daughter of Kiviuna) ↑ "Jane" ↑ "Fat" ↑ Kōmauna ali is "More Sli" wife ↑ Inna'yatk and daughter ↑ Tjiktjiktk. (5-6 yrs). Panitcak and wife ↑ "Molly" Agnaküñak with adopted girl 10-12 yr. old named Anlaraüña

Wind hauled to NW for a little while in the morning then back to SW again

Jan. 8. (Mon.) Clear bright morning. Very cold below - 40° Fahr. Very light SW wind. Tannaumik and Palaiyak went with one sled, and "Jawlow" and Angasiauk with one sled from ships to cut whale meat and blubber for dog food. A fresh new Caucass came ashore last fall on NW Corner of Island, and has supplied everybody on the island with dog food all winter. People here have not killed very many Seals not enough to live on and have had to buy quite a bit of flour. Very few Foxes have been caught. (St. Bernard, with ten, having the highest score at Baillie Island). Practically every native on the island is in debt to one or both ships. The price this winter is two fox skins for one sack of flour. Capt. Wolki says that when a native catches one fox he will come to the schooner and ask for a sack of flour - truly on credit. He doesn't want this debt as the chances of collection are problematical. Times promise to be harder before the winter is over as the ice usually closes up for a long spell about this season, and when there is no open water few Seals are killed. As usual a good many people hang around the ship most of the time, and

Jan. 8. (Mon.) Bought a brass "dollar watch" from "Old John" Kuhl for one caribou skin = the only available watch on the island.

Jan. 9. (Tues.) Hazy, foggy morning. Light SE wind. Not very cold. Several men went out with Kayak on sled to see if there is open water, and try to get seals. Tannaumnik and Palaiyak went with them.

The ships people have killed about twenty seals since Christmas, but the shore people got none until New Years, and only about seven in all. Most of them do not hunt very industriously, and whenever a seal is cut up at the ship, a good part of the meat finds its way ashore.

Clear in evening. Light NE wind.

Jan. 10. (Wed.) Clear all day. Light NW wind. Cold. Went to visit house with "Old John" and Paniyak, and brought back a load of fish, and gunny sack ful for myself. Fish are frozen down in a solid mass and have to be chopped out one by one. The White fish seem to be perfectly fresh, and good for boiling or frying, while the fat Herring, which were considered better last summer, have become tainted a little. However, for eating when raw and frozen, the little taint does not matter at all.

Jan. 10. (Wed.). Saw a flock of seven or eight Ptarmigan flying across east end of Baillie Island. Not a single track seen today — not even a fox track.

Wind blowing a gale from SW in the evening. Daylight (bright) today from about 8:30 a.m. to 2:30 p.m. (slight twilight).

Jan. 11. (Thurs.) Clear morning. Light SW wind. A little warmer than yesterday. Apparently no open water near. And nobody went out sealing. Repairing sleds today. Wind stronger in evening.

Jan. 12. (Fri.). Clear day. Cold. Fairly strong SW breeze, enough to drift snow along the ground. "Old John" went over to the island and saw a flock of about twelve Willow Ptarmigan but his shotgun was full of frozen oil and refused to work. Open water within a mile or two of shore today, and apparently closer towards Cape Bathurst. Several men went out sealing, but saw few Seals. The boy Ovayuak is said to have got one. One sled came up from village on the little creek, Oshukok, Tutakak's boy.

Jan. 13. (Sat.) Clear all day. Light SW wind in morning, increasing in afternoon, and snow drifting thickly along the ground. Cold wind in face. Several went out sealing and Panikak killed one large seal

Jan. 13 (Sat).

Several people here (natives) are quite sick at present. The wife of "Jambone" on the ship, complained of headache and fever night before last. Capt. W. gave her Dovels powder. No fever in morning, free perspiration — but headache. Today, has apparently no pain, but sits up with vacant look, often smiling and mumbling senseless words. Does not seem to recognize her husband trying to write this morning, but made no legible marks. "Jambone" is with her all the time, very attentive and has nearly worried himself into sickness.

People came over this morning and said that Anakima's little 2-yr. old girl was dying. I went over and found child gasping for breath, wheezing in lungs and rasping in throat at every breath. Occasionally she would straighten out convulsively. Put mustard plaster on chest and gave hot foot bath, also two menthol tablets. In afternoon child was sleeping, short naps, and breath came a little looser.

Anakima has complained of headache and pain in chest, stomach, etc. for several days, better now.

Paritcat's wife has "dryness in throat," the most common complaint here.

Fat Romanna has headaches, pain in eyes at intervals, heartburn (?), and great difficulty in urinating, sometimes taking an hour to empty bladder. He is said to have had bad case of Chancres at Langlon Bay several years ago.

Jan. 13. (Sat.) Light SW wind in evening. Clear and cold.

Jan. 14. (Sun.) Clear. Cold. Fairly strong SE wind at 6:00 a.m. Found out last night that Paunigabluit had given away about half of the gunny sack of frozen fish that I had brought over for the trip to Langton Bay. Ittuaqut was over this morning begging for more fish. When I was here last summer we made several sweeps with the big net, and offered the old beggar as well as several other natives, all the fish they wanted - fish by the barrelful - but he said he had plenty (i.e. enough) for dogfood for a day or two ahead. All the natives spent the fishing season loafing and spinning yarns on the beach and not one put a single fish in the ice house. The only fish put into the ice house were brought there by "Old John" Kubt, Capt. Bernard, and Naoimik (the latter working for me). Just now, two or three white fish or herring look as big to a Baillie Islander as a net full did in August.

Everybody here is worrying about Capt. Bernard and Billy. Bernard had stated very positively that he would be back within a day or two after New Year's and one or both men must have been taken sick or met with an accident otherwise Bernard would not have left his schooner alone and unguarded for so long

Jan. 14. (Sun.) Palaiyak and Mungalana went to Eskimo camp on little river returning to ship in evening. People at other camp killed five Seals Saturday.

Jan. 15. (Mon) Clear day. Light S.E. wind changed in Early morning. Not very cold. Sky very bright in south at noon, and sun "almost" visible at horizon.

The woman Nunaranna, about 32 yrs. old wife of "Jumbo" for past three days has been out of her head apparently suffers no pain. Pulse and temperature normal. She sits up in bed most of the time with a vacant stare & a foolish smile often laughing out loud; speaks occasionally, but does not answer questions rationally. Appetite very good.

Interview with Nauyavuk, the oldest inhabitant of Baillie Island, at present. (An old woman named Panigyuk, who at camp East of here is considerably older.

Nauyavuk was born at Nēwōrak, somewhere between Cape Brown and Warren Point. When a boy lived there and at Nattiyoyuit. Visited Fort Anderson on Anderson River & Macfarlane River when a boy 10–12 yrs. old, and saw Mr. Macfarlane ("Mis-pū-lū") there. Came to Baillie Island when a young man (& perhaps first when a big boy). Has never been east of mouth of Horton River. The first white man he ever saw was when a boy 5–6 yrs. old, somewhere "east of Herschel Island". The white man was called Kanmaiktuat

Jan. 15. (Mon.) and had with him one "Kogmollik" boy, who spoke the Kablunæ language and also spoke the local language, at least, enough to be understood. This white man asked about some lost ships which were coming from the East.

1. Concerning contact with Indians: Saw many Indians while on visit to Fort Anderson "igluput" — they were "Good" Indians. Knew of no fighting with Itkillet in his time, but had heard of earlier fights.

2. No name known for Banks Land except "Bank-sea-land". Nobody has heard of crossing to Banks Land except in white men's ships.

3. Pottery. Its manufacture was described to me by Nauyaork, and by "Martha" Agnaiviak (about 30-35 yrs. old) wife of Panitcak (a Kittigaryuit woman. Clay or Earthen pottery was commonly used at Baillie Island and at Kittigaryuit. Called Kri'ko, a certain kind of earth. A layer of white cotton from dwarf willows called pal'lirk (the same as is used for wicks in stone lamps), was spread on the ground. This cotton layer) was covered with earth mixed with seal's blood (natjirn auk) and molded into shape with the fingers. No water was used in the mixture, and no willow twigs, grass, &c. were used for stiffening.

Jan. 15 (Mon.)

4. The ~~pots~~ utkuśtik were then baked hard in wood fire. Earthen pots were made here and at Kittigaryuit. Lamps were made of stone only — no clay lamps. Stone lamp material = tu nik tat.

The Ahvagmiut (Baillie Islanders) made their stone lamps (Kodlit) from slabs of limestone or slate. Nanyavuk showed me a piece of a stone lamp made from stone taken from banks of Anderson & Macfarlane River a little below the old fort. They did not have lamps made of the steatite used by people East of Cape Parry. Nanyavuk said he had heard of "Kogmollit" who came from Eastward with sleds "aipanni" (long ago), with the soft stone lamps, but he had never seen them. Nanyavuk had a stone lamp 20-3 in long brought from ~~Minto Inlet~~ Victoria Land by Kanamma (contrived in "Olga" with Mogy or Klengenberg).

6. Bows. Said that ishū alik = three-piece bows, were used only by Kogmollit. Here and at Kittigaryuit men and boys alike used bows made of one piece of wood, backed with sinew. Said later that sometimes they made and used three-piece bows but not often. One-piece bows were called pū tik shi vi lut. "Jawbone" says that when he was a boy he saw some 3-piece bows, and used one when he was a boy. Three-piece bows were not in favor because they were harder to make, and did not shoot so strong. When good wood was available, one piece bows were preferred.

Jan. 15. (Morn.)

Fire-stones = Ko shaun. At Baelkie Island, as well as at Nuttegaruit, people used a piece of translucent stone (flint), picked up anywhere, on sandspits, river banks, etc, striking sparks with a piece of steel. Sometimes fires were kindled by friction using a bow-drill and piece of soft wood. Sometimes two fire-stones were struck together to produce sparks. These stones were found on Macfarlane River, near the old igluput. For tinder willow cotton, or pat'lirk, was used.

6. "Aipariui," labrets, or lip buttons were worn by all men, in holes bored through lower lip, one on each side, below mouth usually small and made of stone. A long time ago, women wore a single very large labret through middle of lower lip. This was long before Nuligaruk's time, but he had heard people tell about it. "Innbone" had also heard of this custom. At present, the practice of perforating the lip has been abandoned, and no men younger than about 25 yrs. have the lips perforated.

7. Copper = "Aipunni" copper or Kannyuk was known only from copper kettles which came from Hudson Bay down the Mackenzie River. I heard that to the eastward, the Kogmollut formed copper in great masses, like boulders

Jan 15 (Mon.) on the seashore. (This latter information may have been recent, from Noggs or Klengenbergs natives.

Ikre·tū nirktat: Nanyavuk said that he had heard that Kogmollet probed for pot-stone in soft earth, using a stick for a probe. When stick was withdrawn from the ground, blood dripped from the end of the stick.

5. Place Names: Mainland NE of Baillie Island, from which projects the sand-spit on which village is located, is Abvrak. People called Abragmiut.

Baillie Island - NE island, smaller = Akonirk.
" " SW " larger = Krēkiktat'shiak.
SW sandspit = Nū-vug-yak.
Channel between islands = Shamiron?
" " Ungajyuit?
Whale Bluff = Kū Higniriksha.
Mouth of Horton River = Igluūa'luit.
Smoking Mountains = Ignērūit.
Langton Bay sandspit (whalers harbor) = Nūvūrayuk.

9. Langton Bay people - before advent of whaling ships many people lived in Langton Bay, in comparatively recent times. Mr. Macfarlane went across country from Anderson River to trade with these people. Nanyavuk says that these people are said to have died after eating meat from the carcass of a gigantic man "inuk pi cugruk" which drifted ashore and was mistaken for a whale. Only one woman survived and travelled overland to Baillie Island and told the story. According to Kū'ta Kak's story this happened to Horton River colony instead

4.7.15 (MOH.)

Whales

Re Whaling, before advent of whaling ships. People at Nuwuk, East of Warren Point, killed many whales in Kauya vuk's youth. They whaled in skin umiaks, using paddles, struck with stone-headed harpoons (kapon), although some iron-headed spears were used. They preferred to strike small whales, took only a little of the whalebone, for fish-lines, etc., but used the meat and blubber for food. Kauyavuk himself had the honor of killing two whales. For the first whale a line was tattooed across his cheek from ala of nose base of ear. For second whale a second line was tattooed parallel to and about ~~half~~ ¼ of an inch from the first line. Kauyavuk's wife, Tashū wan'nu, about 55-60 yrs old, proudly exhibited a similar line about three inches long tattooed diagonally across angle of right shoulder and extending a little backwards and downwards. When a man killed a whale his wife was entitled to receive this decoration. If a man killed many whales, and did not have room on his cheek for an equal number of tattooed lines, the tally was kept by tattoo marks on upper arm.

From masthead at noon, saw very bright reflection of upper edge of sun.

Jan. 16 (Tues.) Clear all day. Light SE winds. At noon about half of sun's disk (or rather, it refracted image) was in sight from sea level for several minutes. Repl. from ships got several seals — Jacobsen two, Anoshmiak two, Tannaumirk three — Netsilik from beach killed two. Repairing to start for Langton Bay tomorrow. In middle of forenoon found that Capt. Bernard and Billy had arrived about 11 p.m. last night.

Schooner "North Star", of Howe, is wintering near Warren Point, Master MacAndrew with his wife and another man named Jacobsen

Polar Bear

Polar Bears were very numerous around Cape Dalhousie last fall, shortly after freeze-up; two fresh carcasses on small island. Anderson found carcass first, and counted fifty Bears around it. Having only 15 cartridges he was afraid to tackle them and went back to schooner for help. On return party about 25 were seen and quite a number killed. Little fur trapped to westward.

White Fx.

Anderson Jr., at Dalhousie, had caught 24 White Foxes up to Dec. 25, and only one since then. Others had caught much less.

Steam whaler "Belvedere" wintering at Herschel Island. A small trading outfit wintering at Shingle Point; another schooner came as far as Collinson Point, Alaska, and landed an outfit.

Capt. Bernard has decided to stay another year in the Arctic Ocean before returning to Howe. He says he is making nothing this year, but as there is little fur to trade for, he will have enough stores

Jan. 16 (Tues.) left to carry him through another year. His present intention is to spend next winter somewhere to the eastward — preferably near Lambert Island, Dolphin and Union Straits, or possibly in Banks Land.

Capt. Bernard brought up several letters for Mr. Stefansson and myself; and two or three packages of papers "Literary Digests," etc., for myself. Most of the mail came down Mackenzie River via Fort McPherson last summer (1911), and was forwarded via Herschel Island. Some letters were of rather ancient date (from Feb. 25, 1910 on) but contained "news" nevertheless.

Jan. 17 (Wed.) Clear morning. Light N.E. breeze strongest towards evening. Clear all day. "Betty" and Ana Kinnia got me seal apiece. Spend day writing letters and adding postscripts to those written last August. Latter were left here, but as nobody had gone to Mackenzie this winter they had not been forwarded. "Lovy" Romanuk is expected to go boat to Pittsburgh soon with sled and I am going to send letters down in care of the missionary there, Rev. Mr. Fry.

Jan. 18 (Thurs). Clear forenoon & light N.E. wind. Spent day in Bernadé house writing letters and tucking. Sky cloudy evening and wind (NE) pretty strong. Rather warm all day. Thermometer stood 0° Fahr. about 6:00 p.m. Wind blowing a gale at midnight, and blizzard threatening. Billy killed two Seals today, and other natives three (Amaktinna and Orayuak two apiece). Bought from Capt. Bernard

Seal.

1 box tea (6 lbs.
3 seal skins (1 white, 2 blue), dressed.
2 butcher Knives.
2 pocket Knives.
3 cans baking powder.
2 " Cream tartar.
2 cakes Williams' shaving soap.
3 papers needles (glovers).
Chewing gum (about 4 dz. bunches.

Paid for tea, two fox skins, the regular "Indian price," and he missles in throwing in the other stuff.

Jan. 19 (Fri.). Clear in morning. Brisk NE wind. but not very cold. Intended to start for Langton Bay today, but consumed forenoon getting stuff ready, fixing stove, etc.

Bought from Capt. Wollaj Schr. Rosie H.
1 sack flour, 5 cups tea, 6 yds. print calico, on acct. Pannigablut
2½ lb. white tobacco (traded in Knud 6 Aug 1915 Lee
Clump mch. 2 lbs. Rumford baking Powder.

Jan. 19 (Fri). Four men sealing today. Jawbone one seal, Anaktuina two, etc. Sled arrived from little river, brought news that people there had killed plenty seals recently, also one Uggruk.

Panikpak had a sudden attack of what he calls heart trouble. says he has had spells for several years. He was starting out sealing in the morning but the sudden pain prostrated him in five minutes; better in evening.

Bernard caught one Fx., and Joe 2 another

Jan. 20 (Sat). Clear morning. Light NE wind, about the same as yesterday. Cloudy in afternoon.

Yesterday I had a long talk with Tannaumirk concerning his going back to Langton Bay. Nothing had been said on either side since our trouble on Jan. 3rd, and he had appeared willing to work ever since. He came over to Capt. Bernard's house today, expressly to ask me if I wanted him to go along. I told him to come on, and he said that he would. This morning he came around again and said that he had decided not to go. Then left Palaipat and I to take two sleds back home. Told Tannaumirk, in presence Capt Walker and ship's natives that I would prefer to have him go along, but that, on the other hand, I could do very well without him, and he could quit if he wanted to — and in that case he could look out for himself. I took his stuff, and seven traps — (6 large, 1 small one)

Jan. 20 (Sat.)

We had been depending on the Seal three which Tannaumiitt shot two days ago, for our meat and dog food on the way back and Pannigabluk had skinned two for that purpose. He latter had already disappeared and I told Tannaumiitt to keep the other for his own use. Took along two pieces of whale tongue from ship, intending to cut more at carcass near Whale Bluff.

Old Iritinayuk ("Rambler") came along with a big bale of blankets, skins, clothing &c., and began piling them on my sled just as I was about to start. Asked him where he was going, and he said Langton Bay. I protested that proposition — p.d.q. — have troubles enough without hauling deadbeats around the country. His friends here can look after him if he is too lazy to work, and around Langton Bay, he is pretty certain to be on our hands sooner or later. I hereinafter forgotten the rest he and his family worked with collusion of Tannaumiitt, to get a free excursion, with board included to Baillie Island.

Palaiyak and I started off at 9:20 a.m. with two light sleds and eleven dogs. Reached Nuatuk camp and little Nuk at Cape Bathurst, 8 mile, at 11:15 and stopped for a few minutes. Going ahead we met Billy Mulkuskuak, three or four miles from camp, returning from his hope. Billy decided he would like to accompany us to Langton Bay

Jan. 20 (Sat) as he said he wanted to see Stefansson. We put all the stuff on our sled, and Billy and I went ahead to the Whale's Carcass, north west of Whale Bluff, and about fifteen miles from Bedlie Island, while Palaijak went back to Kutatoks camp after Billy's blankets, ammunition, &c.

Billy's mind is very changeable. His wife, Kiyiyna, died last month, just before he went west with Bernard. They returned on the 16th inst, and on the 18th, Billy asked Kiviuna for permission to marry her 14-year-old daughter. Kiviuna refused on the grounds that Billy was too old for the girl. Before the day was done he had arranged with Pannigabluk to go on hunting trip to McFadens River and perhaps to Nuteng-in. While with Bernard, Billy expressed wish to go East again with "Teddy Bear" to Victorialand. Camped at whale carcass about 2 p.m. Found very little heavy wet frozen driftwood - poor fuel, but we made it answer, using plenty of whale and seal blubber.

Jan. 21 (Sun) Clear all day. Light westerly wind. Up at 5 a.m. Capt. Wolki had cut off some blubber and meat here in the fall and piled it up. He said that we could take what we wanted to, as he would probably not use it. Found that one of the numerous native sleds which have been here lately had taken all loose blubber, and we had to

delay several times to cut more. Frozen whale is the most difficult thing imaginable to cut. The true skin (under the black skin) freezes as hard as boiler plate, and the axe cuts into blubber with difficulty because it is elastic and closes up when axe is withdrawn.

Jan. 21. (Sun.) On trail 8:30 a.m. Passed Capt. W's old smoke house, new old igloo, about 10th a.m. While looking around for some wood to put on sled, Palaiyut scalded an old weather beaten human skull out of the snow, an old sled runner near it. Stopped for lunch at 11:30, making fire in lee (seaward side) of large ice cake. Wind pretty strong near shore, pouring down over edge of cliffs. Resumed travel at 1:20 and camped near Smoky Mountains when it became too dark to travel at 4:30 pm (In morning, daylight was about the same at 8th a.m., as at 4:30 pm).

Arctic Fox [Saw two fresh fox tracks on ice today; also one Raven and six Ptarmigan in land near beach. Made very small house tonight two tiers of snow blocks with canvas roof. Have very little wood, brought on sled and Primus stove used very for cooking breakfast.

Jan. 22 (Mon.) Clear all day. Practically Calm. Sunshine on mountains for over an hour at midday. On trail 9:45 a.m., and travelling very fast at least four miles per hour, reached Capt. Wolki's house at 12:45 pm. One sled

Jan. 22 (Mon.) runner was badly broken, both iron runner and wooden and we had to camp early to fix it, glad to open Bear meat cache. Polar Bear was shot by Hannett and Billy Early in August, and cached in ground. Wood piled over it, skin on top, and above that a layer of sod. Meat pretty rotten now, smelled vilely when opened but dogs ate it greedily, and Billy and Polar just said it was fine eating frozen. Saw four wolves on sandspit near Wolki's old house just as we arrived. They ran toward the river. Found fragments of stone [illegible] in meat cache.

Several large pressure ridges have come up since Colvocoresses Horton River and Smoky Mountains since Jan 3rd, compelling us to pretty near sled haul many places. No difficult places however. Much smooth, recently flooded ice. Saw several open seal holes and one Ugyuk hole in young ice in tide cracks. Camped in Capt. Wolki's house for the night. New moon seen in SE at 12 m

Ringed Seal

Bearded Seal

Jan. 23 (Tues.) Clear, calm morning. Very cold. Up at 5:00 a.m. Boys very sleepy, having sat up for some time after I went to bed and were slow getting up. On trail 8:40 a.m. Camped 3:00 p.m.

Took half a seal from house with Captain Wolki's permission, leaving two whole carcasses and one half carcass.

Jan. 23 (Tues.) Started from Capt. Wolki's house at 8:40 a.m. and travelled fast all day - running practically all the time - one man sitting on each sled most of the time - and alternating with the other man running ahead. Reached main channel of Horton Rivr deep channel running near to east cliff bank, at 9:30 a.m. - about 5 mi. from house. East end of Horton Rivr sandspit at 10:15 a.m. - about 3 mi. from main channel. Sandspit low, flat, with scattering tufts of grass; many little ponds or lagoons. On west or north west side, the sandspit extends for about 6 miles, or at least a mile west of Wolki's house.

Passed cliffs smoking 15-20 ft. above sea level at 11:30, two places about 20 yds. apart. very strong sulphurous smell. Passed camp 2 Jan. 2nd at 11:45 (about 10 miles from Horton Rivr). Hills smoking in several places back from here from 200 - 300 yds. - not noticed on trip up, on account of darkness.

Camped at 3:40 p.m. on low, flat shore, mountains at least half a mile back from shore. Abundance of good wood on beach, and scattered over for some distance back.

Calm all day, and sky clear. Sunshine visible on mountain tops from 10:30 a.m. to 1 p.m. Cloudy in evening and much warmer. Much dust seen in many places today.

(1902) Skerries of "Hultstones" transparent crystals in structure about 5 ft. above sea level; also, west from same, 5 ft. yellowish putty-like stratum 3-4 in. thick a little above. Rest of mountain mostly limestone.

Jan. 24 (Wed). Cloudy morning. Quite warm. Light westerly wind off the land and a little ahead. As we approached Langton Bay, wind appeared to be about south (true). Temperature almost up to melting point — enough to soften the snow and make sleds run very easily. Wind lowered in evening, and sky cleared a little. Moon visible at 9 p.m. and a few stars seen at 11 p.m. Much dust had been blown out on the ice since we passed over this trail Jan. 1st and 2nd. The ice and snow is dingy gray in most places, while the mountains look pretty black denuded of snow.

On trail 7.40 a.m. (with just enough daylight to travel well), went very fast all day, and reached Langton Bay house at 2.40 p.m., with an hour and a half of good daylight to spare.

Came from Horton River (Capt Wolki's house) to Whaler's House at Langton Bay Harbor in fourteen hours of actual travelling. Snow packed very hard, and although it was blowing a gale this afternoon there was no snow drifting.

Nobody has been here since we left. Alingak's stuff blown off rack, and one bag of stuff found far out on ice

Jan. 25 (Thurs.) Cloudy morning. Light SW wind. Snow falling quite thickly at 9 a.m., but very little had fallen before. A few snowflakes flying all day. Spent daylight hours repairing sled as best we could. The large Point Barrow sled has one runner completely broken in two, and one steering rod broken. Spliced the oak runner temporarily, and removed the rear pair of broken cut shoeing. Most of our tools are over on the river. Yukon sled needed general tightening up at all points. Dogs had taken deerskin and sealskin lashings from several cross braces, and I replaced these with wire. In evening patched tent, putting a large patch around stove-pipe hole.

Jan. 26 (Fri.) Cloudy all day. Very light air stirring from southwesterly direction. Billy and Palmiyak went to whale's carcass and cut half a sled load of dog food. The meat looks pretty fresh, darkened and little frozen. Blubber is pretty dry, and surface tough and stringy. The boys reported that a fox had burrowed his way well into the carcass, making a sort of house. Spent remainder of day getting all stuff preparatory to crossing the mountains to Horton River tomorrow.

Jan. 27. (Sat.) Cloudy foggy morning. Strong N.W. wind at 4:00 a.m. and snow drifting. Decided not to start until weather should more favorable. Wind lowered and sky cleared about 9:00 a.m. so late to get on the trail. Foggy in afternoon again, and wind strong from S.W. Sky clear in evening and much colder. Paluiyak hauled a load of wood from point north of harbor where they had piled up wood last summer. Unraveled some large ropes and braided two twelve fathoms of sled lashings from rope yarn. Very cold in evening.

Jan. 28. (Sun.) Slightly cloudy in morning. Strong S.W. wind. Billy, Paluiyak and I started across the mountains with two sleds on trail 9:30 a.m. Fairly strong wind and snow drifting pretty thick along ground, but not very cold. As soon as we rounded the pass up creek gully we had to face a blinding cloud of snow pelting into our faces. Being compelled to keep a firm hold of sleds to prevent capsizing across the many short diagonal snowdrifts, we could not keep our faces thawed out and Billy and I were slightly frosted. Reached crest of mountains at 12:45 p.m. less wind on top of hills and we made good time. Camped at 3:00 p.m. an hour before dark at old wood cache. Having brought a little wood on sled we had a comfortable camp.

Jan. 29. (Mon.) Wind pretty strong during night, but lowered towards morning. Overslept - until 7.00 a.m., and as wood was not very good did not get on trail until 10.20 a.m. Calm and clear all day. Very cold - about the coldest day this winter. Saw three fresh Caribou tracks about 5 mi from Harlin River. Reached river at 1.30 p.m. Camped at 4.00 p.m., a little south of "Jimmy's Creek". Saw [illegible] fresh tracks, and Wolverine tracks on uplands and one Fox track on Whaleis Creek.

Jan. 30. (Tues.) Cloudy morning. Warmer. Light SE wind. Sky cleared up in forenoon and weather colder. Very cold in Evening. On trail 7.45 a.m. and reached house on Coal Creek about 11.30 a.m. No tracks seen on river. Stefansson and other people at the house were well but getting short of meat. Fish nets had been taken up shortly after we left, and no Caribou killed. Kaviurik returned in evening from first long hunt he had made for some time, and reported having seen four Caribou a few miles to eastward. Since Dec. 27th, Kaviurik has trapped two Red Fox (losing one by wolf); three Wolverines (of which one left a foot in trap, and another carried off trap). No shot caught one White Fox.

Caribou

Red Fox

Wolverine

Arctic Fox

Jan. 31. (Wed). Sky clear at 5.30 a.m., but clouded up later. Clear in afternoon and evening. Silv. Billy and Paleyatt went out to look for Caribou seen yesterday, but found none. They saw a good many Ptarmigan.

Feb. 1. (Thurs.) Cloudy in early morning. Much warmer. Repairing broken sled today, and getting other gear fixed up.

Feb. 2 (Fri.) Strong wind blowing up creek in early morning, and snow drifting. Quite warm all day. Sky cleared towards noon, and weather remained good for the rest of day. Nobody out today. Sled repairs finished.

Feb. 3. (Sat.) Rather warm at 6.30 a.m. Sky filled with broken masses of woolly clouds. Clear and cloudless forenoon. Calm. Light wind from NE after 1.30 p.m. Billy and Paleyatt started northward with sled to look for Caribou in vicinity of high mound called Ishuglut, about 15 miles north of here, intending to stay three or four days. I went out about five mile to fishing lake. Saw one Hare's track and heard Ptarmigan. Saw a fresh Wolverine's track now and then along the old sled trail, and saw Wolverine on edge of lake. The Wolverine would run a few yards at a time, then stop &

Feb. 3. (Sat.) look around. Apparently did not see me, about half a mile away, so I went around behind ridge to intercept him. A few minutes later I saw the wolverine (with glasses) nearly a mile away, galloping steadily in the opposite direction. On north side of lake, saw a whitish or light tawny wolf near farthest fishing hole. He had evidently seen me before. Saw him and kept edging off to eastward, occasionally sitting down on his haunches to look around. Slavinski caught a whitefish.

Wolverine

Feb. 4. (Sun.) Clear. Cold. Fairly strong NE wind, snow drifting thickly on uplands, but not in valley. Went out for a little while to look for Ptarmigan. Saw two flocks (about forty in all) in hollow brush, deep snow covered with tracks. Birds were very wild (about 2 o'clock pm.) and kept running about very rapidly, or standing still with necks stretched up looking around, very much on alert so that I could not get within shotgun range. Slavinski looked at traps today, but found nothing although a wolf had carefully inspected five of his traps without going into dangerous proximity.

Feb. 5. (Mon.) Clear morning. Colder. Clear and calm all day. Went up on hills to southward, but saw no Ptarmigan. Saw Hawk fly over camp. Nothing in Slavinski's traps today but I saw two flocks of Ptarmigan. Horton River flooding extensively above mouth of our creek.

Feb. 6. (Tues.) Clear morning. Calm. Very cold. Went across hills to southward striking Horton River a little above. Coal exposures in high bank south of Stefansson's old house. Made photographic exposures.

(420) #2. Coal seams, right (east) bank of Horton River. 8 - 1/100 - B. Sun. 1.24 P.M.

(421) #3. do. at about 100 ft. distance.

(422) #4. Right bank, about 1/4 mi. below preceding, showing irregular massed limestone at river level, overlain by coal seams, and stratum of quadrangular blocks near top of bank.

(423) #5. Left bank, perpendicular walls, about one mi. below S.'s old house. 8 - 1/100 B.S. 1.07 P.M.

(424) #6. Left bank, about 300 yds. below preceding, showing curving uplift of strata. 8 - 1/100 - B.S. 1.15 P.M.

Saw two flocks of willow Ptarmigan, about twenty each, feeding and replaced in morning. They were not very wild and I killed one with rifle. Saw fresh tracks of Wolf and Fox. Hairnet shot three Willow Ptarmigan. Sunrise at 9:15 A.M. (my time), and there was a full hour of sunshine after I reached home at 2:15 P.M.

Feb. 7. (Wed.) Clear all forenoon. Slightly cloudy in afternoon with light wind. Nothing in traps today.

Feb. 8. (Thurs.) Cloudy morning. Quite warm. Slightly foggy after 9 a.m. Sky cleared in afternoon and evening. Nothing in traps although Ikoomik shot a fresh wolverine tracks.

Feb. 9. (Fri.). Clear all day. Calm. Very cold. Went up on hills in morning to look for Ptarmigan but saw none. Ikoomik killed 6 Caribou 2 Willow Ptarmigan. Palaiyak came home about 2:15 p.m. with half a load of caribou meat. He had left "Billy" at their camp about 15 miles NE of here, where they had killed eleven Caribou during the past week. Billy had caught one White Fox.

Caribou
W. Fox.

Feb 10. (Sat.). Clear all day. Calm until about 1 p.m. when a brisk breeze sprang up from the northeast, as we got on the high hills. Palaiyak and I started from house on Coal Creek at 9:00 a.m. with two sleds, taking some little stuff which we wanted to move down the river. Followed Hotham River down so that boy could pick up some traps. Left River, about 3 mi. S. of Jimmy's Creek, and found easy ascent up small creek. Put one snow shed (old Indian lodge frame) and reached Billy's camp at southern base of Ishegluk about 3 p.m. Billy had seen four caribou yesterday, and trapped a good furred Wolverine (the latter very fat). Today he had seen herd of twenty-five Caribou and chased them northward over the mountains toward the sea. Wind moderated a little about 9 p.m.

Caribou
Wolverine

Feb. 11. (Sun.) Clear morning. Cold. No wind as yesterday and calm all day. Loaded everything at this camp (meat, skins etc.) and moved camp down to Hotton River to foot of a little creek valley half way between Whaler's Creek and Indian Lodge Creek. It took about 1½ hours to come down, with fairly heavy loads. Saw several fresh Hare tracks and many Ptarmigan tracks in spruce near river.

Feb 12. (Mon.) Clear and calm all day. Very cold. Billy and Polaijuk hauled down the remainder of Cariboo meat with the exception of two carcasses which are too far away (near Longton Bay mountains). They also put out some more traps. A Wolverine had sprung one of Billy's traps, but got away. I remained in camp, putting up skin-drying rack and thawing out and straightening skins. Ptarmigan near camp in morning.

Wolverine

Feb 13. (Tues.) Clear, calm morning. Cold. Polaijuk and I start for Stefansson's house on Coal Creek with both sleds and all the dogs. Billy remained at camp to tend traps etc. Out at 9.20 and reached house at 1.40 p.m. running most of the way. Calm except for a slight head wind for about an hour around noon. Bitterly cold freezing even a slight breeze. Nothing doing at Clarke since we left.

Feb. 14. (Wed.) Clear morning. Calm. Cold. Slightly cloudy with a little fog in afternoon. Pelaiyat & I in the rest of his own and Ikoomuk's sled. Ikoomuk repaired the Point Barrow sled. Pelaiyat shot one willow Ptarmigan.

Feb. 15. (Thurs.) Clear and calm all day. Very cold. Foggy and foggy in several places along river owing to water flooding the ice. The ice had frozen solid where we had to go up on bank day before yesterday, but water had broken out in another place about a mile below there, and steam hung thickly along the river for about a mile. Old trail on west side not touched however. The great flood which broke out a week ago about two miles south of the mouth of Coal Creek flooded the river for about two miles. The first day the water came out Ikoomuk said a stream nearly a foot deep was flowing over the river ice with a strong current. Packed up everything & hooked today on three sleds and started down river at 10:25 a.m. St. Jonsuck in afternoon and we stopped for an hour and made tea. Dogs pulled poorly and we did not reach Billy's Camp until nearly dark (about 5:30 p.m.). Billy had caught nothing in traps since we left.

Feb. 16. (Fri.) Clear a.m. Calm. Cold. Cloudy in evening and much warmer. Started down river with "Billy" to look for rabbits.

Feb. 16 (Fri.) Left camp just above "Whaler's Creek" at 10 a.m. passed mouth of "Camp Creek" at 1.30 p.m.; River recently flooded for 6-7 miles which made good travelling. Water still flooding at lower end, and we found passing rather difficult. Deep soft snow on river below Camp Creek. Saw several fresh tracks of Wolverine and Fox, also of Hares, crossing river & few Ptarmigan seen just before dark. Camped about 5.30 p.m. Timber much larger and heavier in this part of river than any other part of Horton River I have seen, reminding me of Dease River.

Wolverine Fox Hare

Feb. 17 (Sat.) Cloudy morning. Warm. Calm. Clear after 10.30 a.m. Belly hunted by a large creek coming in from southward (Horton R. making another big bend to northward here). He saw a few Rabbit tracks, and followed one for a long time, finally shooting one Rabbit. I went down river 2-4 miles, partly on river, then along heavily wooded hillside and up to top of high barren hills back of the river. The woods were full of a network of Ptarmigan tracks, everywhere, but only two or three small bunches were seen. Scattered and wild. Saw one Canada Jay in the bush, and a Snowy Owl on top of high hills. Skinned Rabbit for specimen #751. ♂ Rabbit. L. 500 mm. T. 52 mm. Hft. X 5 m.

Northern Varying Hare

N. Varying Hare

Feb. 18. (Sun.) Foggy sunshine all day. Calm. Very cold. Billy frost his cheeks severely travelling along the river. On start 9.30 a.m. Went faster than on way down river as we had a well broken frost trail through soft snow. Saw fresh remains of Ptarmigan killed by Arctic Fox. Billy had set two traps on the river on the way down, and a large Fox had investigated both, walking all around one trap, but not coming within 4-5 feet, probably shy of fresh human scent. Reached home Camp about 3.30 p.m. Stefansson and the other people at camp heard the noise of our sled crunching through the snow 20 minutes before we rounded the last visible bend of river at least three miles away. During our absence two White Foxes and one Wolverine had been caught.

Red Fox.

Arctic Fox. Wolverine

Feb. 19. (Mon.) Clear most of day. Slightly cloudy to northward in forenoon. Very light southerly wind around noon. Maurnett, Billy and I took two good sled loads of stuff up the Whaler's Coast and cached it on top of the hills near big lake (the old camping place on Langton Bay trail. Then and one-half hours going up, and two and one-half coming down. Saw two or three fresh Fox tracks, one Weasel track, and a few Mouse tracks. Billy shot three Willow Ptarmigan and a Flock of 12-15 in bow Willow flat. One White Fox in Peltrijak's and one in Billy's trap. Killed Moon.

Fox. Weasel Mouse

Feb. 20. (Tues) Hazy, light fog along coast in early morning. Calm. Broke camp and started for Langton Bay with three sleds. 9:05 a.m. Reached Cache at 1:10 pm and boiled tea. Bright, clear day, and warm enough to travel bare-handed and bare-headed most of the time. Very light southerly breeze started about noon and gradually increased. Left cache at 2:05 pm reached summit of divide at 2:45 pm and Langton Bay house at 7:00 pm. Wind lowered a little between 5th and 8 pm but from SE to NE and then blew a blizzard from SW all night. Found Alingat wife and little girl in house. They had been here one night, had spent most of winter at Okat fishing place but had killed no Caribou. They had spent some time at Cape Parry and Booth Island within the past month but saw no Fox tracks at all, and only a few Bear tracks. Most of the time there was no open water, but sometimes narrow cracks opened up, and some froze over. Once they killed two Seals in a narrow crack. Alingat has caught only five Foxes this winter.

Arctic Fox
Polar Bear

Feb. 21. (Wed.) Cloudy. Strong SW gale, drifting snow around the house in a blinding flurry. Not cold. Wind lowered in afternoon, and sky cleared a little. No snow drifting. Snow drifts very hard and slippery on surface.

Feb. 22. (Thurs.) Cloudy morning, with light snow falling, at 8:00 a.m. Sky soon cleared a little and snowfall ceased. Very light SW wind. Quite warm all day. Boys went up the mountain and brought down the two sled-loads of stuff cached there on 19th inst.

Feb. 23. (Fri.) Hazy, sunshine in forenoon. A few snow flakes falling at intervals. Very light air from SE. Warm. Palaijat hauled a load of wood. Hannie and Billy cut a sled load of dog-food from Whale's carcass. Two or three foxes. Fox tracks were seen.

Feb. 24. (Sat.) Slight haze at sunrise. Light Easterly wind. A little colder than yesterday. Clear in afternoon. Preparing for Cambon hunt to East side of Langton Bay.

Feb. 25. (Sun.) Cloudy morning, with light snow falling. Snow continued to fall all day. Light SW wind in morning but not enough to drift snow. Wind began to increase about 1:00 pm, and by 2:00 o'clock the weather was pretty thick. Howling blizzard in evening. Quite warm all day.

Started from Langton Bay Harbor 9:50 a.m. with two sleds (Ilbouint, Billy, Palaijat, Alingat and myself. Course E. 30° true for point across bay, which we reached 11 a.m. about three miles. Set trap here. Found quite a lot of rather heavy, old driftwood

Feb. 25 (Sun). on south side of bay, about 2 miles from End and put in about one sled load as there is no wood at east End of Bay. Camped at 2:00 p.m. at Edge of small lagoon at creek mouth at Eastern extremity of Langton Bay. having travelled only about three hours, at a medium walk. (about 8 miles).

Feb. 26. (Mon.) Clear at 6:00 a.m. Colder. Brisk breeze from SW, but scarcely enough to drift the snow. Wind had practically died down before 9 a.m. and remained still all day. Very cold. We all went out to north eastward intending to have a look from top of "mud volcano hill", hoping to see Caribou. Saw a bunch of 7-8 willow Ptarmigan busy feeding on top of windswept almost barren hill. Very tame. Shot two. About two miles inland saw four Caribou lying down in middle of flat, between two lakes. No cover for approach, and temperature so low (without wind) that our footsteps would be heard long before getting within rifle range. Party separated trying to work around the Caribou and drive them. Stalking being impossible. Deed took alarm before flanking party had gone very far, and started forward. Pal. succeeded in heading the bunch (now seen to be seven) off to eastward. They passed down foot of bank of along Lake 58 of "Mud Volcano" and Alingat killed one and wounded others, and Hawbuck finished the rest. All

Feb. 26 (Mon.) were small young bulls and had medium-sized antlers, with exception of one which had shed horns. All were very poor. Hair on back and sides of head and neck very short, stubby and ragged (except a narrow fringe of long white hair along median line of dewlap); bare hair in these spaces said to be due to the Caribou scratching sides of neck by kicking with the sharp-edged hind hoofs. Grub mark skin very numerous, about twice the size of Navy Beans, white and with faint transverse parallel corrugations on sides. While we were engaged in watching movements of above Caribou some of our dogs left camp, following at a discreet distance, and looked around to windward, scaring up another bunch of four Caribou which ran rapidly through our hills to southeastward. On way home, just before sunset, saw six Caribou about three miles from coast, to eastward. Tracks both old and new numerous everywhere on hard-drifted snow going in every direction.

Caribou

Snow packed very hard everywhere. Took out snowshoes along on leaving camp, but soon slacked them as being useless except in a very few little dowdy willow swales. Steps on hard crusted snow resounded like drumbeats today. I could hear Caribou running over a mile away.

Feb 26 (Mon.) Skinned out young male Caribou for scientific specimen. #752 ♂ Caribou
Caribou L. 82 in Tail. 6½" Height at shoulder 42"
Depth chest. 18½". Shoulder to hip joint, 38".
Shot about 5 miles NE of Eastern end of
Langton Bay.
Wind about South (true) at 10 a.m. p.m.

Feb 27. (Tues.) Clear morning. Light SE wind. Wind stronger towards noon but irregular, drifting snow along ground quite thickly at times. Sky a little hazy in afternoon. Warmer than yesterday. Started out with two sleds to bring in meat killed yesterday. Saw a bunch of five Caribou feeding about two miles inland, and separated to surround them. Ilwinirt remaining with sleds. Caribou took alarm and ran away to southeastward. I followed but did not see them again owing to snow haze to windward. Saw another bunch of six lying down
Caribou on side of a little hill in a row with heads away from wind. The wind was blowing pretty strong. I succeeded in working around about 250 yds. to leeward. As they were on one side of a little ridge and I on the other, I could see only their heads by standing up. Tried to sneak around a little closer to summit of ridge but snow crust was soft in places and I often broke through. The wind lowered for a few minutes, and when I looked over

Feb. 27. (Tues.) the top of hill, saw the herd running rapidly away, 400 a SW yds. distance. Stood when they stopped to look, but missed. Three Caribou kept going steadily towards the mountains to southward. Caribou tracks everywhere on the hills. The other men hauled to camp five carcasses, leaving two. Nothing in traps and no Fox tracks.

Caribou

Feb. 28. (Wed. Wind fairly strong SE in forenoon, drifting snow along the ground, lowered in afternoon. Clear all day. Hunted to SE and E. parallel to foothills of mountains, but saw nothing but three flocks of Ptarmigan about fifteen in each flock. Nannuk saw a bunch of six Caribou, including two fawns, to the eastward in foothills and shot at them but missed. Palnigat saw one White Fox. Billy and Alungit hauled in the two remaining Caribou carcasses. Photographed camp.

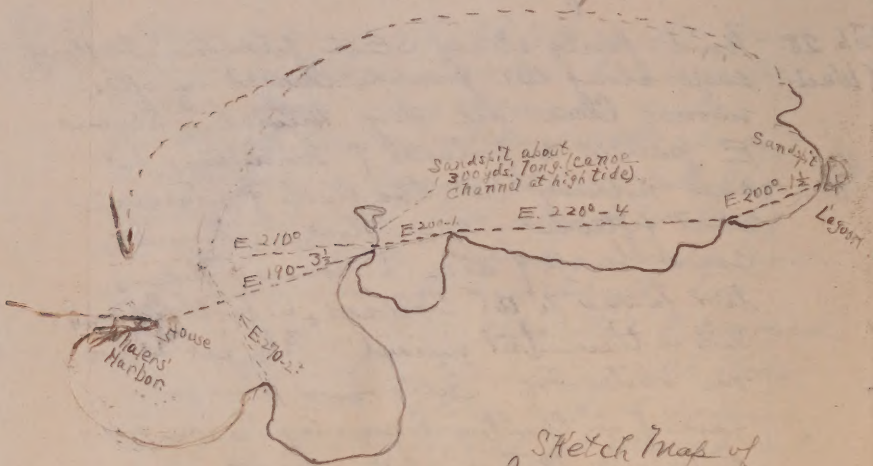
(425) N. Snow walled hunting camp. 8-1/10-B.S.2.33 p.m.

Feb. 29 (Thurs.) Clear morning. Calm at 8 a.m. Warmer. Calm until about ~~noon~~, when breeze started up from SE, gradually increasing towards evening. Hazy sky in evening. Moon in third quarter. Nannuk Palnigat and I hauled two sled loads of meat from Camp at eastern extremity of Labyrinth Bay to Wholers Harbor, about ten miles starting 11:45 a.m, reaching house 3:15 p.m. Sun at midday melting blood on Caribou skins on south side of sled, and blood dripping on snow.

Feb. 29 (Thurs.) Photographed both our sleds, loaded, with dog-teams.

(426) *8. Yukon sled with six dogs: Roger (leader), Kuŏrak, Kattŏwak, Kakŏk, Inglak, and Ivarluk. 8 - 1/10 - B.S. 1:00 p.m.

(427) *9. Point Barrow sled with five dogs: Nannuk (leader), Mac, Sport, Lindy, and Shukobruna. 8 - 1/10 - B.S. 2:00 p.m.



Sketch Map of Langton Bay. Compass bearings Magnetic

Map sketched - allowing 45° Eastward Variation.

March 1. (Fri.) Cloudy in early morning. Strong SW wind and snow drifting pretty thickly. Wind lowered during forenoon. Calm at Midday. Ikonnik went with one dog team to camp at east end of Bay where Billy and Alingak are staying. I remained at house skinning out head and feet of 5 Caribou #7 & 2. Photographed #10. Caribou back-sinew drying on board.

(428) 1 - 1/10 - B.S. 1 p.m.

Mar. 1. (Fri.). Quite warm today, even when a little blizzard was blowing in the morning. Wind suddenly started up from SW about 5 p.m. and within half an hour was blowing a pretty stiff blizzard, which lasted all evening.

Mar. 2. (Sat.) Howling blizzard from S and SW all forenoon. Not very cold, however. Thick swirl of snow everywhere near ground but sky fairly clear above. During the night the wind had carried the Yukon sled back-wards from side of house about fifty yards to edge of ice. Wind blew a gale all day, with occasional slight lulls, hauled to East (or SE) for a short time then back to SW. Blowing hard all night, and weather pretty thick.

Mar. 3. (Sun.) Cloudy morning. Wind still strong from SW, but a little less strong than yesterday, and little snow drifting. Mountains and headlands visible. Palaiyat and I started with dog team for Camp at East End of Langton Bay, leaving house at 9½ a.m. Wind nearly fair and having nearly empty sled we made fast time, reaching Camp at 11.40 a.m. — 2½ hours. Men there not up yet, having been stormbound for 1 day and two nights. Wind lowered for a few minutes about 10 a.m. and blew from NE for about ten minutes, then hauled to SW again. Men out on hills in afternoon but nothing seen. Wind stronger than ever in the morning and snow drifting thickly — not sticky and soft, almost rain; scarcely freezing. Ilavinuk saw three Caribou near house when he came back here March 1st.

Mar. 3. (Sun.) but they became frightened at dogs and ran away before he could shoot. A wolf had recently entered Aliguk's boat cached near here, gnawing the wood, tearing open a clothing or ditty bag, and scattering stuff around. No foxes have been seen or caught here.

Mar. 4. (Mon.) Blizzard of past two days continued until about 2:00 p.m. Wind blowing from SW, and snow drifting so thickly that hills 200 yds. or more away were invisible most of the time. Quite warm. Decided to remain in camp today, as we would have difficulty in finding camp site on lake near Dauley Bay in such thick weather. Sky cleared a little about 2:00 p.m. and wind calmed down. Light NW wind at 4:00 p.m. and a few snow flakes falling.

Mar. 5. (Tues.) Sky partially cleared at 7:00 a.m. slight fog. Light SE wind. Clear in afternoon. Light evening. Broke camp at 11:25 a.m. and started for large lake on west side of Dauley Bay. Visited traps at scene of recent deer-killing. One white fox in Billy's and one in Slavinski's traps. Photographed (429) ♂. White Fox in trap. 8-1/2-B.S. 1:15 p.m. Saw two Rock Ptarmigan feeding on hill top and Billy shot both. Large flocks of willow Ptarmigan seen feeding on low flats near lake. Found travelling rather difficult over several miles of flat land between

Mar. 5 (Tues) Langton Bay hills and Darnley Bay lowlands with little hummocks or "nigger-heads" and here and there dwarf willows a few inches high. Snow in most places only a few inches deep, however, with thin icy crust, and dry loose, icy granulated snow below. Wherever snow was drifted it was very hard. About 4.30 p.m. when near SW corner of big lake, saw a band of about fourteen Caribou feeding about 1½ miles to Southward. Pilinjat had started in that direction in the morning and as it was nearly dark, we decided to move on to Alingat's fish cache at mouth of creek flowing into southernmost point of big lake, near southeast corner. Reached cache at 4.30 p.m. and found nothing had been disturbed. Cache simply a box made of large slabs of clear ice. A White Fox had been caught in deadfall by cache but devoured by some other animal. Alingat has a house here built last fall, a loose frame of poles, willows, etc, covered on sides with turf and moss and on top with grass and canvas. We had brought enough wood for a little fire in stove but did most of cooking on primus stove. Alingat's stepmother died here last fall, and is cached as pictured on top of hill near house, covered with slabs of ice.

Mar. 5. (Tues). A narrow channel from big lake connects with a small lake to southward and a small creek runs about parallel with Danley Bay mountains three or four miles north into this smaller lake. Clumps of willows 5-6 feet high near mouth of this creek. Willows said to furnish enough dead sticks for camping purposes in fall but now they are nearly buried under hard-packed snow drifts. Last fall Eliniak set his fish nets in narrows between two peninsulas about one mile west from camp. West and southwest side of big lake are very irregular much cut up by bays and peninsulas, also some islands. All hills hereabouts composed of loose sand, gravel and stone.

Mar. 6. (Wed.) Clear day. Strong SE wind in forenoon and snow drifting thickly along the ground. Wind somewhat irregular. Rather warm. Wind lowered in afternoon. Slightly cloudy in evening. We all started out to SE in morning (about 11 a.m.) having spent most of morning trying to cook breakfast with Primus stove which refused to work). After going about 3 miles saw fifteen Caribou quietly feeding in a close bunch on low flat table land near large lake. We flanked them on three

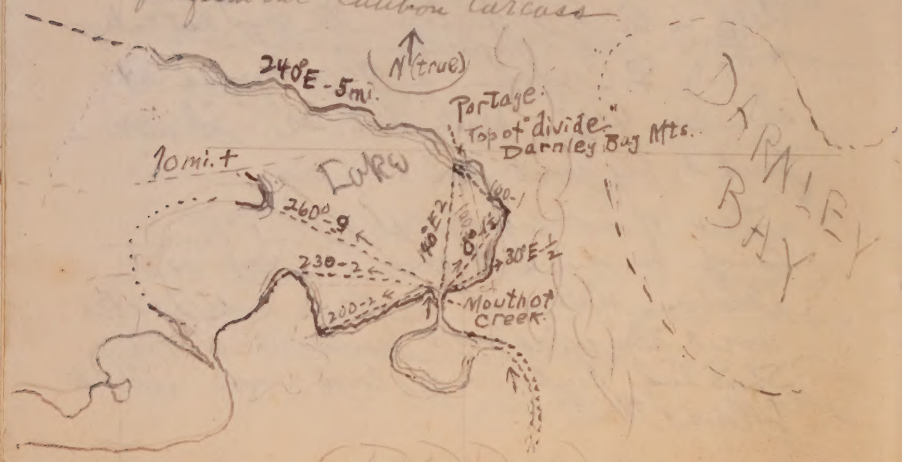
Mar. 6 (Wed.) sides. I watched the band for about an hour and a half, from east side, at distance of about 400 yds. They were feeding about 20 rendeer with heads pointed in any direction and seldom looking up at all. Iwinnik then started a fusillade from west side, at about 100 yds. and killed five near together. Others broke away, circled a bit to windward & but soon winded Brain & then ran away to SW, followed by Billy and Paliujak. Billy later killed two cows and Paliujak two. Another wounded (8 pts) white Caribou was shot by Iwinnik near scene of first shooting. I examined the first four killed by Iwinnik one young bull rather poor and three cows all quite fat. Two of the cows had foetus and butter each. The other (fattest one) had rather small pair of horns. Skinned butter. She had a good layer of back fat about 1 inch thick in middle and a layer of fat on outside of ribs measuring ½ inch deep in thickest portion. All cows had embryo Opera a little larger than marbles.

* 753. ♀ Caribou L. 77". Height at shoulder 41½". Depth chest 20". Shoulder joint to hip joint 31".

Three of our dogs followed out from camp and interfered with the Caribou stalking. We had hobbled the worst stragglers before leaving camp but "Spot" and "Lindy" worked loose and "Kinorak" followed them.

Mar. 7. (Thurs.) Clear morning. Slight haze during middle of day, and light SE wind. Cloudy in evening. Steady SE wind. Quite warm. Iłavinirk, Billy and Palaiyak went out with one sled to skin two or three Caribou left unskinned yesterday and to cache the meat in the pledge. Alingat and I took the other sled and crossed the mountains to Darnley Bay, went about 2 mi. south along the coast and found enough wood on a little cove to load up sled. Time: Left camp. 11:40 a.m., (running) to foot of mountains, 2 miles, 12:10 p.m.; across mountains to Darnley Bay 12:35 p.m. Finished loading wood 1:30 p.m.; reached home 4:00 p.m.

Palaiyak and Billy saw three herds of Caribou today, one of thirteen, one of four, one herd unCounted. Iłavinirk saw one White Fox, and many Ptarmigan. A Fox had eaten a little meat in fed from one Caribou Carcass.



Mar. 7. (Thurs.) The outlet of this large lake is a small creek which empties north of Langton Bay somewhere near the Okat fishing place. In summer a large canoe (umiak) can be taken from Franklin Bay up this creek along the big lake to foot of low portage. Less than half a mile from Darnley Bay. Alingak says that he, with Kutakak and Utok took a canoe up here once and hauled canoe over the pass on sled. This was the canoe frame we saw on south side of Darnley Bay in October, 1910. Alingak says he thinks a whaleboat with light load, could be taken by this route up to foot of Darnley Bay mountains. Mice running about bound a good deal at night.

Mar. 8 (Fri.). Clear morning. Wind light South East. Everybody in camp today, repairing gear, flaying up skins &c. Took few more compass bearings of lake from bluff at mouth of creek. Cloudy in evening. No wind. A large gray mouse (Arvicola?) came and sat in house several times today. but we could not catch him.

Mar. 9. (Sat.) Cloudy at 6.00 a.m. Wind light SW. Started back toward Langton intending to pick up Caribou meat en route. 9.00 a.m. Left a little meat in Alingak's Cache. Picked up seven Caribou at one place and one farther at another. One White Fox in Ilavinuk's traps. About five miles from Camp (about two miles from meat cache), a White Fox was seen running away from carcass of another Caribou which had been

Mar. 9. (Sat.) wounded Wednesday, and escaped. It had apparently been dead at least two days, as skin was green inside and meat smelled badly. Foxes had eaten most of neck, one shoulder and ribs on one side. Many Fox tracks all about. Nelvis set seven wolf traps here, and put butt of meat on sled for dog food. Moved very slowly today, with about nine Caribou on sleds besides rifles, camp gear, etc. Reached old camp at East end of Langton Bay at 4:30 p.m. and camped there. Billy visited traps at scene of first Caribou killing, and brought in three White Foxes. He said that Fox tracks were much more numerous than last week, and he also saw one Cross Fox track. We saw five Caribou today, feeding at the base of foothills south of us about 2:00 p.m.

Mar. 10. (Sun.) Cloudy morning. Fairly strong SE wind. Rather warmer. Nelvis, Aligak and I started for Langton Bay Home at 9:45 a.m. with two sled loads of Caribou meat, etc. Billy was a little sick this morning "in the bowels" and he and Palaiyak remained at the camp. A few snowflakes falling during forenoon. Wind hauled to SW after noon and sky cleared a little. Reached home in four hours travel. Found Mamagauk sick with bad sore throat, headache fever, etc., and all the others with throats more or less sore.

Mar. 11. (Mon.) Cloudy most of day; a little sunshine in afternoon. Light NW wind in morning SW in afternoon. Spent day thawing out, skinning head, feet, etc., and washing Cow Caribou skin. Quite warm today.

Mar. 12. (Tues.) Hazy sunshine in morning. Light SW wind. Quite warm. Ikuqtuk wind: camp at East end of bay and returned in afternoon with Billy and Palaiyak. Finished cleaning skulls and bones of two Caribou. One sled arrived in evening from Baillie Island "George" Komanka his wife "Jane" Ikuayuk little girl Tyitjiak and the old man Ikuayuk (Aliyak's father). Brought news that "Long" Komanna had died recently at Baillie Island. bled to death by bursting out of blood vessels in leg (?). Few Foxes and - being caught there and no Bears have been killed since I was there. A few Seals are being killed there now, and Komanna killed two Seals in cracks on the way down here. They were out of food when they reached here and had not eaten today. They report general sickness at Baillie Island this winter. One more family (Ulim's) had come up Kuktejuyuit this winter.

One Seal has been seen on top of the ice in bay south of here twice last week and Stefansson tried to stalk him one day, but failed to get near, perhaps because he wore a light colored snow shirt.

Mar. 13. (Wed.) Clear, bright morning. No wind. Warm all day. Put up cable outside for drying skins, &c.

Mar. 14. (Thurs.) Clear bright morning. No wind. Tied sled and sled to whale's carcass for dog food. Hung up some caribou and Bear skins to dry off heat frost which had caused everything in store house. Slight haze during latter part of day.

Mar. 15 (Fri.) Clear day. Light wind. Ekvinuk and Billy repaired all the sleds, which are getting badly shattered. Gathered up and packed skins, bones, Etc. for hauling to Baillie Island.

Mar. 16. (Sat.) Strong SW wind started up about 5.00 a.m. blowing down cable on which skins were hung. Snow commenced drifting and within two hours a thick blizzard was blowing, which lasted all day. Sun shine faintly visible. Wind howled locally at about sundown in vicinity of house although snow could be seen drifting a few hundred yards to westward. Apparently the wind comes down in streams through gullies in the mountains as snowbirds. The ice house (½ mile S) is hidden by blizzard while it is clear here. Remained in house all day instead of starting to Baillie Island as intended.

Labelled and packed six fur skins collected and skinned by Palaiyak during summer of 1916. Nos 758-763.

Mar. 17 (Sun.) Wind lowered in early morning, but started up harder than ever about 7.30 a.m. and continued pretty strong until noon. Lowered in afternoon. Sky hazy. Clear in evening. Wind west. Everybody kept in house another day. Printed a few Kodak negatives. Skinned a young White Fox which was caught here in December, 1911.

764. ♀ White Fox, jr. L. 796. T. 280. H.F. 130.

Mar. 18 (Mon.) Cloudy at 6.30 a.m. Foggy to westward. Fairly strong west wind. Packed up sled with skins and bones entirely, intending to start to Baillie Island today, but wind and drifting snow increased so we deferred starting today. Palaijat announced today that he wanted to go on to Herschell Island and Billy said he would accompany him. Palaijat received news during the winter that his mother had recently died and he wishes to see his sister at Herschell Island. Stefansson decided to go to Herschell Island with the boys.

Mar. 19 (Tues.) Cloudy in early morning. Bright sunshine after 7.00 a.m. Also a little fog after 10.00 a.m. Light S.E. wind all day. Alikomiak's and Komanna's families packed up in the morning and started for the Okat fishing place

Mar. 19 (Tues.). north east of Langton Bay intending to go to Cape Parry in a little while. Spent day hunting up, sorting and packing stuff which Stefansson is to take to the Westward. Made several photographic exposures, Mamayauk posing, wearing fancy Caribou-skin dress, made in old-fashioned Kittegaryuit style — dress made this month by Jemima, wife of Alixak.

(431) #3. Mamayauk, performing charm over young pup Sanayaru (name of process of blowing on pup's feet, preparatory to stretching out legs). Also to show front view of fancy dress. 11 — to 5 P. M. Foggy Sun. 11 5 a.m.

(432) #4. do. performing charm over pup, holding up by tail and patting back saying "Kanner yu suk tu tui", i.e. "May you be a strong pack-bearer."

(433) #5. do. (continuation of charm begun in (#3)., i.e. stretching out pup in one hand, and extending arms to full extent, saying "Aui i suk tu tui" = "May you be so big."

(434) #6. do. scraping Caribou skin, for garments. 9 yuk toat.

(435) #7. do. Sewing "M32 Kok tuak" characteristic attitude.

(436) #8. do. To show back of fancy dress.

Mar. 20 (Wed). Bright clear day. Rather warm. Very light N. wind. Spent morning sorting old stuff and packing sleds. Started on trail for Baché Island, with three sleds (seven people), at 1.15 pm. Camped at 5.30 having made about twelve miles. Clear all day. Wind shifted to NW in evening. Flies more (2 or 3 days old). Natives report seeing spit where a seal has been in habit of lying on top of the ice. Photo: #9. Three sleds (teams resting) - Franklin Bay. 8 - 1/100 - B.S. 3.30 p.m.

(437) #765. D. Mouse. 126-24-18. Found dead on ice.

Mar. 21 (Thurs). Clear calm morning. Rather cold at 6.00 a.m. On trail 8.45 a.m. Stopped from 1.50 to 11.50 to repair Pt. Barrow sled (shoring broken and uprights shaky). Started off again at 11.50 and kept going until 1.15 pm when Ilavinirk's sled broke three uprights on one side and we had to stop until 4 to 4 p.m. to fix that (about 1 mi SE of Ilavinirk's grave). Travelled again from 4.15 to 6.15 pm. Camping upon a wooded spit opposite low gap about 13 mi SE of Horton River. Saw large quantity of smoke issuing from mountain top (behind divide). Early this morning, about 9-10 miles east of here natives say that the Sperets (tormaut) inhabiting these mountains and Raping the subterranean fires (fire all much dangerous). Clear those first? Horton River. The mountains send smoke up

Mar. 21. (Thurs.) Today all said to have been smoking at this place from time immemorial, but I had never seen them smoking so far east (by at least twelve miles).

Mar. 22. (Fri.) Hazy sunshine at 7^30 a.m. Almost no wind until about 9^00 a.m. when light breeze started from about East (true), gradually increasing all day, until snow was drifting pretty thickly by 3^00 p.m. Cloudy and slight fog after 8^00 a.m. Snow falling at 8^00 p.m. On trail 8:32 a.m. and reached East end of Horton River sand spit (about 13 mi.) at 12^00. Made tea and started out again at 1:50 p.m., reaching Capt. Wolkie's house 4:45 p.m. Considerable sand, dirt, fragments of shale, and even small pebbles had been blown out on the ice in considerable quantity for some distance East of sandspit. Very hard sledding across drift flats, owing to patches of sand and gravel which frequently stalled the sleds.

Found Capt. F. Wolkie and Angasimeut (with their families) at home. They had arrived here last night from Help Horton River and were stopping over a day to rest their dogs. They had left the ship at Baillie Island Feb. 23rd, and spent eighteen days on the river catching three good Silver Gray Foxes (the poorest one almost black — with silvery hairs only from about the middle of back to base of tail); five Cross Foxes (the best Cross Fox being nearly a Silver — with only a little reddish on shoulders). They also caught one good

Mar. 22 (Fri.) light-colored female wolverine, and one Red Fox. They went up about fifteen miles beyond the first three on the river, and had thirty steel traps and several deadfalls set in long gully for fifteen miles. Nothing was caught during the last eight days. Two Rabbits were killed and a few tracks of others were seen. Plenty are said numerous, but very wild when among the spruce trees. This place is quite a long distance (along the river) below the place where Billy and I camped on our Rabbit hunting Expedition Feb 16-17th.

N.W.H.&C.

Capt. Wolfe says that he has never known Horton River to break up at its mouth before May 25th. Sometimes the ice comes out with a rush and great masses are shoved out clear across the mudflats. On one occasion the river rose fifteen feet, and water from river came nearly to Wolfe's house, about four miles from main channel of river. The water from river sometimes flows out over sea ice for two or three miles. Water comes out with such a force that it often sends great blocks of ice and logs and ended the edge of pressure ridges of shore.

Wilson Geese. He says he thinks there will be little Geese shooting at mouth of river this spring, because there is little snow on the land. When the snow melts away quickly, and there is little snow on the land, when they arrive geese stay only three or four days and then go right around NE apparently towards Banks Land. If the ground is snow covered

Mar. 22 (Fri.) The large flocks sometimes stay for a long time, moving back and forth in the harbor of Harrowby Bay and Macfadane River.

Mar. 23 (Sat.) Cloudy forenoon. Hazy sunshine in afternoon. Clear evening. Brisk East wind. Capt Wolki's people called us (by request) at 4:30 a.m., and we succeeded in getting started from Camp at 7:15 a.m. and travelled until 5:00 p.m., stopping about 25 min for light lunch. Camped at little creek about two miles East of Whale Bluff. Hauled a little wood on sled from Horton River sandspit, as there is practically no lodging place for driftwood East of Horton River before reaching Whale Bluff and West of that point the Baillie Island people have used most of the wood.

Capt. Wolki says Whale Bluff was named by Capt Tilton who raised "whales" on the Bluff, near shore. Natives say that they used to kill many whales near shore before ships came. Now few are seen. Last fall Capt Bernard had one whale while returning to Baillie Island in September.

The largest number of ships wintered was fourteen at Herschel Island in 1893-94 (about five hundred men.

Largest catches: Capt. Bodfish "Beluga" 270 64 whales, did not go to westward.

"Balaena" Capt. Norwood, 67 whales, 1895-95, went two to westward.

"Narwhal" Capt Smith 69 whales, 1895-95 one or two to westward.

Bowhead

Mar. 23 (Sat.) Whales in these waters are smaller than in Bering Strait &c., 200 lbs. being very large.

Small whales, called "Innuto"; are much smaller than "Bowhead"; and seldom of ever more than 2½ or three feet long. Bones of head harder prepared by Point Barrow people for sled-runners; yield not more than 35 to 40 lbs. of oil. Can be distinguished from Young Bowheads by greater hardness of head bones. Probably this is the species which was formerly hunted in Langton Bay, and whose skulls are so numerous on the sand-spit.

Bowhead

Sun is said to remain above the horizon after May 12th, at Barrier Island.

Mts. "Smoking Mountains" on Horton River, first trees (spruce); — 38 or 40 miles from mouth of Smoking Mountains.

#766 Lemming. 135-15-17. Caught running on ice off

Mar. 24. (Sun.) Cloudy. Light SE wind, which kept gradually increasing until quite a blizzard was blowing in evening and snow falling pretty thickly. On trail 7:35 a.m.; passed Barrow camp (W.) at Cape Bluff 9 a.m., and reached village on Little river (about 8 miles East of Barrier Island at about 11:30 a.m. People had killed some seals recently, one Polar Bear since January. Most people have no wood, and have to use lamps for cooking and heating purposes.

Left village at 1:10 p.m. and reached Point at about 4:30 p.m. Hammitt's sled broke badly near Point, but we managed to get on all right. Put skins (fifteen Caribou

Mar. 24 (Sun.) Barren Ground Bear, and Polar Bear skin, skulls, bones, etc. Blizzard pretty thick in evening. Slept in Old Johnston's & Stefansson & Bernard's house and the natives in Ananiaut's and Ravavayut's houses. Rather warm at 4 p.m. about -8° Fahr.

Mar. 25 (Mon.) Cloudy morning. Pretty strong East wind all day, and snow drifting pretty thickly. Much colder than yesterday, -22° Fr. in evening. Ikuminik would not write Punitjuk to cut whale meat from carcass. Several sick people here. Ovayuak, son of Kingaktuk (the nuisance man) has had a swelling on middle of neck on right side, about mid-median portion of sterno-cleido-mastoid muscle. The swelling looked like a large a little larger than a hen's egg, and had broken several days ago, and been cleaned by Capt. Bernard who removed a large quantity of pus, pieces of stringy fibre, clotted blood, etc. The sore had been antiseptically dressed every day by Bernard and Jim Hall. At present it looks like a large egg sliced longitudinally, two raw pinkish flesh carundle in center, edges of sore drying a little and looking dark purplish. I saw this boy two years ago (Nov. '08) at which time he was nearly blind. The year before (Wolki says) he had one eyelid nearly rot off. His mother's face looks sickly with red sore eyes; father insane. Both father and mother are said to have had syphilis, but boy is not known to have had it in primary form.

Another man Mattuduk had been badly swollen blood poison, said to be due to scratch from

Mar. 25 (Mon.) claw of a seal which he was hauling up on the ice. Anaya, Tulugaq's daughter nearly died from inflammation of bowels, but was successfully treated by Bernard and Wolki. She would undoubtedly have died without treatment. Bernard says that her brother came up from the little drift camp on Sunday and asked for medicine, saying that she had not had a bowel movement for" — weeks. He sent back a dose of Epsom salts, but they split the dose, and it had no effect. On Friday people came again, saying that girl was nearly dead. She was taken to Baillee Island, and after several days treatment, repeated injections of soap and hot water, the bowels were finally cleared, and recovery was rapid.

The woman Nunaanna (wife of Jacbone) is more violently insane than in January, and has to be tied up most of the time. Spends most of her time singing, laughing and occasionally crying. Sometimes becomes violent and throws things about, tears up her clothing, etc.

The man Kinaktuk, who went insane last spring, is apparently better; has occasional spells, but is rational most of the time; he still has a tendency to kleptomania, carries off articles and buries them in the snow.

"Big" Ikinasinaak, who is confined to the house every winter with cramped up legs, has a new complaint now — a large ball swelling on right side just over lower ribs. He is said to have had syphilis for years — as well as his wife. A little 8 yr old daughter named Mamayaut (Twilight) has a swelling in throat. An old woman in same house (Tuktuna's

Mar. 25. (Mon.) mother — complains of pains everywhere — Taulana had two hard swellings on side of neck — he has old syphilis; nearly dies of stricture — two years ago. Various others have minor complaints — in fact, hardly a person in this settlement can be said to have good health — When a native is sick — the invariable complaint is "dry throat" a symptom of which they have deadly fear — as nearly all deaths among them are attributed to dry throat. (Cf case of Telugu's daughter — inflammation of bowels due to long constipation — was reported to be sick of "dry throat"). As near as I can tell, the dryness of throat usually accompanied by white & coated tongue — is merely an accompanying symptom of stomach and bowel trouble as well as other more serious ills.

Mar. 26. (Tues). Clear day, very cold — with strong NE. wind — blowing all day, and drifting snow along the ground — Rotched 7 specimens — and skins — in waist house. Our sled has been stored on the roofed over main deck of the "Rose" but the dogs have had much trouble from young pups gnawing into the sled cover. Mr. Fred Jackson (who recently came up from the North Star to stay with Capt. Leonard, shipped with Capt. Wolki today for spring whaling and moved over

Mar. 26. (Tues.). to "Rosie H." Moved my sleeping gear over into Bernard's house and stayed there tonight.

Mar. 27. (Wed.). Clear day, light northeasterly wind; a little warmer than yesterday. Several natives went out sealing, but returned unsuccessful. They said that open water was not very far off shore, but that there was a belt of moving ice between shore-fast ice and the open water. Fresh bear tracks were seen today. Several people came around Bernard's house today for food, saying that they had nothing to eat. (Arutena's family.) Tannaumirk said last night that he had had nothing to eat in his house yesterday.

Eight days after Tannaumirk left me (as I was about to start for Langton Bay on Jan. 20th), he took to wife a young girl named Aina in lieu of daughter of Kiviuna. Kiviuna had refused to give the girl to "Billy" two days before this, and it now seems that Tannaumirk's chief reason for quitting was the chance of getting the girl.

Eskimo love-letter. Last August Tannaumirk remained at Langton Bay to hunt caribou, but sent a letter to Kutakak saying that he wanted K's daughter Kiviuna for a wife, but that if he could not get her he would go back to the girl he had married in Coronation Gulf last spring. Kutakak laughed, Ikuinuk says, when he read it, and

Mar. 27. (Wed.) finally let "Billy" Nattushiak have the girl. She had been living for two years with a ships officer who had gone out, leaving her an ample years supply; intending to return next summer. However, the ship had not been gone two weeks before the woman had taken another husband.

Mar. 28. (Thurs.) Clear. Calm. Scarcely a trace of wind all day. Cold in morning and evening -28° at 9:30 p.m. but warm in sunshine during middle of day. Went to ice-house (Beluga's) on point, above S.W. Sandspit, with "Old John". Ice-house said to be nine miles from ship but it seems to me now (as it did in the winter) to be not over 8 miles, or between 7 and 8 miles. Started at 9:45 a.m. and arrived at 11:30 a.m. John sitting on sled all the time on account of rheumatic leg. Return trip 12:45 to 2:50 p.m.; with four gunny sacks of fish and some wood on sled. Two sacks for Johnson and myself. Several natives out on ice sealing today. Mavoirk and Anakina killed a medium sized Polar Bear today.

Tuluga Candoveo today, having caught five foxes in one day; however he had not looked at his traps for a long time. This change of luck has caused him to change his mind about going East. Paydie and Taulana have also recently caught one fox each.

Mar. 29. (Fri.) Clear day. Warmer. Very light southerly wind. Expected to start for Langton Bay today but Ilavinirk had to haul in Bear's meat and Stefansson had to have some boots repaired. Found out in morning that the people of village had used up all the meat and burned the blubber which Ilavinirk cut from whale carcass the other day and we have no dog food to start tomorrow.

Mar. 30. (Sat.) Clear in morning. Very light N.E. wind which gradually increased until snow was drifting pretty thickly along ground before noon. Not very cold. Took picture of Capt. Fritz Wolki's two children, Jim, aged 8 yrs and Lucy, aged about 5 yrs. Promised him a picture this spring if I am able to develop films. # (438) Jim and Lucy Wolki 11 - to - B.S. 3.00 p.m. Slight snow haze from drifting snow along the ground. Hula hula in Ilavinirk's house. Helped Stefansson measure a number of heads.

Mar. 31. (Sun.) Cloudy forenoon. Fairly strong S.E. breeze. Not very cold. Clear in afternoon and evening. Packed up sleds in forenoon and started for Langton Bay about 1.45 p.m. (with Ilavinirk, Mamayauk and Noshenk, Tannamiit and wife Arnarodlak accompanying us with sled to get Tannamiit's stuff at Langton Bay. Reached village at little river (Cape Bathurst) about 4.30 p.m. and decided to stay for night (in Tulaga's house)

Mar. 31 (Sun.) Stefánsson loaded his sled at same time, intending to start for Herschell Island, and Cape Smyth (Point Barrow) with Natkusiak ("Billy") and Palaiyak, today. Plans:

Stefánsson and Billy are to try and reach Cape Smyth with sled before ice breaks up, so that he can go out on U.S. Revenue Cutter "Thetis" or some other ship from Cape Smyth. At Herschell Island, Stefánsson is to make arrangements with Capt. Cottle of S.S. Belvedere to touch at Baillie Island in the summer and pick up me and the specimens which we shall have here for shipment out; also to make arrangements with Capt. Cottle to bring Nainuk's whaleboat and other stuff over from Herschell Island as well as bring supplies etc. to pay off the natives in our employ here.

My job for the spring is to haul from Langton Bay to Baillie Island the specimens which we have there — ethnological archaeological, geological, zoological, etc., and what effects we wish to take home. Whatever time is available I shall spend in collecting more specimens — and last, to get myself and "plunder" out of the country this summer.

Palaiyak expects to come back from Herschel Is. to Baillie Is. on "Belvedere" next summer and Billy to Baillie Is. from Cape Smyth if ships come from westward this season.

Apr. 1. (Mon) Clear, cold morning (6 a.m.) Light SE wind. Snow drifting along the ground. Cloudy towards evening. Started from Tuluyá's house at Little River (Nutáviĸ) at 8 a.m. and reached snowhouse camp at little gully called Kusróĸ at 12 m. Stopped to bad on tent and camp gear cached here, lunched and started again at 3 p.m. Camped near high point about 1 mi E. of the most westerly Smoking Mountains 6 p.m. Cliffs steep, little beach, walls, hard, brittle, crumbling red vitrified brick stone. Manayaut pretty sick all last night, with bad cough (profuse expectoration of phlegm from throat and headache, and had to ride on sled today. Headache better today but worse in evening. Pulse 100/102. Frequent urine after recumbency, but air pretty cold this morning.

Apr. 2. (Tues) Cloudy at 6 a.m. Light snow falling. Fairly strong ~~SE~~ E wind, but rather warm. Snow flying all day. Sun visible in haze at times. Took specimens of rock there. Kinds — red, buff, and black). from cliff within 4 ft. of sea level. On road 8 hrs. and reached Capt. Wolfe's house at 1:50 p.m. Made lunch, and as work altho was pretty thick when we finished it 3.30 p.m. Decided to camp there.

Apr. 3 (Wed) Cloudy forenoon. Strong E wind, and snow drifting. Sky cleared a little towards noon. Snow falling after 6 p.m. Left Camp at Wolfe's house at 8:05 a.m.

Apr. 3. (Wed.) Recent snowfall made better travelling over delta flats, but numerous bare gravel ridges made it bad enough. Rededed East end of sandspit at 10:40 and passed a "Smoking Mountain" at 12m. Cliff smoking about 50 feet above sea-level. Took photo #1. Smoking cliff about seven miles (439) east of Horton River. Franklin Bay 8–4/5. Bright hazy sunshine. 12m. Stopped for lunch on high wooded (driftwood) bench 12:30 to 1:15 p.m. On top of knoll found a thin layer of whitish beefy substance much resembling Caribou fat (tried it). Out trail again from 2:15 p.m. to 6:00 p.m. Going fast, running at least half the time. Camped about 2 mi. from Horton River.

Apr. 4 (Thurs.) Clear, bright, and warm all day. No wind. Water dripping from icicles on south side of dilly ice caves. Sky clouded a little towards evening with very light breeze from SE. On trail at 8:05 a.m. Saw fresh Bear tracks near camp. Passed old camp (7 March 28th) at 10:40 a.m. and steep snow banks at 12m. Saw a Marmot (Spermophilus parryi) sitting near his hole on little hill near bluff (first Marmot of season). Shot and wounded him badly, but he gave a last struggle before I could reach him and flopped into the hole several feet almost vertically into an icy snowbank. Stopped for lunch from 1:20 to 2:30. Passed camp of March 28th at 3:40 p.m. and reached

Apr. 4 (Thurs). Langton Bay bound at 7:45 p.m. Nobody had been here since we left. A wolf had prowled around house and pulled some whale meat down from top of large tank. Saw several fresh fox tracks and one wolverine track on ice today. Mamayauk had been sick ever since leaving Baillee Island, and had been riding on sled for practically the whole trip; bad cold in lungs, almost continuous coughing, frequent bad headaches, sore throat, etc. pains and very erratic pulse; feeling a little better today.

Apr. 5. (Fri.) Hazy bright sunshine all day. Very light SE wind before 9:00 a.m. but wind pretty strong in afternoon and snow drifting quickly along ground. There has been quite a snowfall since we left here and apparently little wind - soft, flaky snow about ankle deep. Covering all the old dirty ice and snow of the winter. Made a pair of snow goggles by sewing two Burke & James' Color filter glasses (amber) on a piece of Canton flannel. One seal seen on ice today.

Apr. 6. (Sat.) Clear, bright sunshine all day. Fairly strong SE wind in morning. Really calm during middle of day. Wind very variable in evening shifting from SE to SW, S, SE, and East. Some daylight visible in the North now at Midnight. Ikomik and Tannaumiut hauled two load of wood (rather wet and heavy from sandspit island - 1/2 of here

April 6. (Sat.). Packed up three boxes of archaeological speaimens (stone and bone implements, fragments of various kinds) found in old Eskimo house ruins near Okat Fishing Place, north of the east end of Langton Bay — excavated by V. Stefansson and natives in July, 1911.

April 7. (Sun.). Clear bright morning, barom. Very light SW breeze. Hung up a lot of green winter Caribou skins to dry. Yesterday a well-iced piece of tentage was melted off and well dried in the sun.

Took pictures. #2. (spoiled — double exposure)
(440)
(441) #3 Caribou and Fox skins hung up to dry on stretched cable.
11 — 1/10 — Bright sun. 11.00 a.m.

(442) #4 Tannaumirk and wife Ilinaroliuk
11 — 1/10 — B.S. 11.00 a.m.

Calm during middle of day. Light SW wind after sunset, and sky a little cloudy.

Apr. 8. (Mon.). Cloudy hazy morning. Light SW wind, which gradually increased all day until it was blowing snow pretty thickly along the ground. Spent day packing ~~boxing~~ and labeling archaeological and geological specimens. At 5.00 pm. Capt. Mr. Wolki with family and Fredriksen and wife arrived from Baillie Island. Nuyakuna

Apr. 8 (Mon.) with one sled. They had left Baillie Island on Thursday, and found travelling very hard East of Mouth of Horton River yesterday. When we passed that portion of the coast, the ice was covered with fresh new snow, but a later blizzard had blown this snow away, leaving the black mud-covered ice. The warm sun melted this mud so that it clung in large cakes to the peoples' boots (esp. near Igluliit). No game seen enroute.

Stefansson is said to have left Baillie Island for the westward March 31st, about an hour after we left there.

Capt. Wolki saw first Snow Buntings (Plectrophenax nivalis) today.

Apr. 9 (Tues.) Bright, clear morning. Warm. Very light SW air. Wind stronger in evening. Ilaoiuk and I cut a sled load of whale meat for our dogs, and Jacobsen a load for the other outfit. A Seal was seen lying on the ice outside of sand spit. Capt. Wolki tried to stalk it behind the sandspit but the Seal evidently heard his footsteps, or the barking of a dog, and went below before he could get within range.

Apr. 10 (Wed.) Strong SW wind in morning, with snow drifting along ground. Bright hazy sunshine, and rather cold facing wind. Decided to go across the mountains to Horton River with Capt. Wolki's party. Loaded two sleds rather lightly, sharpened

Apr. 10 (Wed) guns, traps etc, and several days' dog food (whale meat). Left house 8:30 a.m. using eleven dogs having lent two dogs to Capt. Wolki. Went along coast about 3 mi. to mouth of creek, just west of lagoon near whale carcass — the most conspicuous mark in the mountain ridge for several miles. Left sea ice at 9:15 a.m. found little snow and many stony bars in broadened mouth of creek. Further up where creek bed was narrower and drifted full of deep hard snow, going was better. Rock exposures in wall of creek about half a mile from east Mountain top, and pass, over covered with deep snow. Reached top of divide at 12 m. Climbed a little hill, and saw two Caribou (a female and a fawn). Klaginirk and I went after them while the others stopped to make tea. We found approach difficult, as country was rather level — but by crawling back and forth in zig zag parallels behind very low ridges we got within about 250 yds, and fired at the cow. She ran for about ¼ mile. The fawn ran out 2 times, but soon both circled and we shot it too. Started back about 4 p.m. and met sleds coming. Skinned the Caribou and started south again at 5 p.m.

Apr. 10 (Wed). Gave Capt. Wolkis party one of the Caribou and we were all pretty heavily loaded. Followed a general S.W. (3) course, snow pretty hard until we struck a deep Creek gully which we followed for about two miles until we reached "Aklak Creek", at 6 p.m. in a wide valley, no wood except willows - snow rather large. Kept we down the Creek - about four miles, and Camped when we struck the first patch of spruce trees, at 8.45 p.m. (just before dark). Very hard travelling in Creek - deep soft snow with many rocks and boulders underneath.

In crossing hills in afternoon saw tracks of one Caribou and later, of four more - also a few Ptarmigan tracks in uplands. A few fresh Fox and Wolverine tracks seen after reaching Creek bottom. Manayauk found a dead Lemming on the snow on hills the fur on back was slightly tinged with reddish brown.

*767 B. Lemming. Melville Mts. Langton Bay. L. 100 mm. T. 13. H.F. 18 mm.

Apr. 11 (Thurs.) Bright, clear sunshine all day. Calm. Quite warm in Creek bottom. Worked most of day bareheaded and barehanded with only undershirt and cotton snowshirt

Apr. 11. (Thurs.) Camped so late last night that we did not finish cooking and eating supper and turn in before 12:45 a.m., consequently did not get up before six or seven a.m. Heard many Plarmigan calling around camp in early morning. On trail 10:00 a.m. and kept on down "Flat Creek" until we reached its mouth at 6:40 p.m. (stopping from 1:00 to 2:30 for lunch. Very bad going in most places. Creek makes many sharp angles, and its bed is full of rocks of all sizes and shapes. Snow was pretty deep, and soft, ~~and~~ heavy sleds cut through to the rocks below, and often the cross bars of sled frames were ploughing and dragging snow, necessitating much heavy lifting and pushing behind the sleds. Capt. Wolki was obliged to unload 300-400 lbs. all his dog food, and caribou meat, at a stony place a little before lunch. He was pretty tired in morning and said the past two days were the hardest work he had done in many years of travel and he would not follow the same trail back for fifty dollars.

Saw several tracks of Fox (large) and of Wolverine along creek today. Numerous large flocks of Plarmigan along the creek on both sides, but they were very

Apr. 11 (Thurs.) mild, and although Hainisk went after them several times, only killed two. Saw a large flock of Snow Buntings (Plectrophenax nivalis) the first I have seen this year, also one Golden Eagle (or a very large Hawk).

Capt. Wolki says that the mouth of this Creek is about one day (fifteen miles) above where he was trapping last month, and is a little more than a day's travel from the lowest limit of spruce trees on river. He says we are four days travel from mouth of Horton River. The river is nearly straight for 15-20 miles below here (N. or NW), but by cutting across several great loops below the tree line, one or more days may be saved in going down the river. One "portage" across a little ridge (10 minutes in crossing) saved four hours in following the river.

The best way to go up the river to the trees, is to follow the coast about 15-20 miles S.E. from mouth of Horton River to a conspicuous low place in mountains where a heavy sled can be hauled up over an easy grade (no steps or cuts), with an easy descent of about 2 miles and a half to the river.

Apr. 12 (Fri.) Clear and calm in early morning. Sky cleared hazy about 8 a.m. and remained so all day. Light NE wind in forenoon, which increased to quite a gale in afternoon and evening. Capt. W. remained in camp to fix harnesses, and Jacobsen went back up creek to get meat cached yesterday. He reported that Foxes had walked all around cache without touching it, and that a wolverine had dug all around the place where we had eaten lunch yesterday.

Kavinirk, Pelayat and I went up river as far as next large creek (about 12 mi) where Natkashiak and I camped in February. Set several traps apiece. Saw several fresh Fox tracks within two miles of camp, but only a few up the river. Several flocks of Ptarmigan, Ravens, a small Hawk, and a Canada Jay. While resting on grand bar on side of river after setting a trap, a Canada Jay came up within four feet of us, and hopped about, picking up the pieces of meat scattered around the trap for bait. Came home across country, via Stefansson's "Jackfish Lake" cutting off a big bend of river. Saw a few Rabbit tracks on portage, also near mouth of Eklak Creek. A little NE blizzard blowing on hills late in afternoon

Apr. 13. (Sat). Clear, bright day. Fairly strong NE wind, and snow drifting a little all day. Capt. Wolli's party started down river, and we started up river at 8.30 a.m. Took up my nearest trap and one other. (From the latter one a Canada Jay had stolen all the bait, and was sitting on a willow near by looking for more. A Wolf had sprung one of Mammik's traps and — Fox had walked all over another one without springing it. Several of my traps had been uncovered by the wind. Saw a few Ptarmigan but they were very wild, and only one was killed. Camped in mouth of large creek, on right side of river, opposite mid February Camp. Thick Spruce timber here. Snow melting badly on deerskin boots today, — sinusfini.

Apr. 14. (Sun) Clear, bright, calm morning. Warm. Went up river about five miles and set eight traps. Mammik also set traps. Warmest day yet — snow crust softened on top, and snow melting fast on barren ridges. Saw a very few comparatively fresh Fox and Wolverine tracks. Came back across hills and shot one Willow Ptarmigan. Saw two or three Willow Ptarmigan with brown heads. Tammamuit went up creek at camp and shot three Ptarmigan. River flowing over ice below mouth of "Hillside Camp Creek". Tammy quite badly snowblind in morning. Two Golden Eagles seen today; also Canada Jay

Apr. 15 (Mon.) Clear, bright day. Light NE wind. Very warm and in southern exposures of gravel banks of river mud and water running down to river. Tannaumirk badly snowblind today and remained in camp to bathe his eyes with solution of Boracic Acid and Cocaine; felt better in evening. Hannirk and I went down river and took up all traps see Apr. 12th. Wolverines had sprung two of my traps and a large ♀ had walked all around one also. A ♀ had stepped on and sprung one of Tann.'s traps, but got away.

Saw many willow Ptarmigan on gently sloping hills S. of "Jackfish Lake", scattered everywhere, and males calling out very frequently; also townsheu along river. Some males had head and neck nearly all brown; others only a few brown pin feathers, invisible on surface of white feathers. Hannirk killed fourteen with shotgun and I four with rifle. Mannayunk killed two near camp with .22 rifle. Saw Eagles, several Ravens, Canada Jays.

Apr. 15 (Mon) Compass bearings of banks of Horton River looking down River from mouth of "Attak Creek": About 220° E. (true) River's course said to be nearly straight for about 15 miles

From mouth of Attak Creek E. 120° - 1 mi
To "Jackfish Lake Portage" E. 30° - 2½ "
(90° E)
E. 120° - ½ mi
E. 90° - 1½ "

To mouth of large Creek (well wooded) flowing from north, with steep mud cliff at mouth on right bank of river. Large island (willows and a few small spruce) just below mouth of creek. N. 0° - 1½ mi)

To mouth of "Loafer" Camp Creek (present camp) - large creek flowing into left bank of river. Creek heavily wooded

E. 120° - 2 mi.

Very light NE wind

Apr. 16. (Tues.) Hazy, foggy morning, until about 8:30 a.m. Thick hoar frost on everything. Sky cleared and sun shone warm and bright until about 3 p.m. cloudy afterwards. Went up river today and took up traps having decided to cross to Langton Bay tomorrow, up creek just below our camp instead of ascending to our "Killick Camp Creek" of last fall

Apr. 16. (Tues.) ice in river is flooding over the ice a few miles above us. Climbed to top of high hills north of river, and saw three Ptarmigan, and one fresh Fox track, but no signs of Brown Bears. Bears should be out of their holes by this time, as weather is very warm. On Apr. 14. 1910, Capt. Wolki killed one at its hole East of Langton Bay — this Bear had apparently been out for several days, but had not gone far from hole. Capt. Wolki said that "Jacobsen" once killed a Barren-Ground Bear on Horton River April 4th. Capt. Wolki said that his Bear had thin soles of feet very soft, and skin peeled off feet as easily as on any other part of body; the Bear was also quite fat.

Klaumik caught a ♀ Wolverine in one of his traps today — rather dark, rough fur. L. 95 cm. T. 21.5 cm. Ht. 48 cm. A Fox had walked around one of my traps but had not ventured within ten feet of it. Saved skull #768.

Compass bearings of Horton River: From Rabbit Camp Creek; N. true 0° — 1½ mi
E. 320° — ¾ mi
E. 60° — 2 "
E. 340° — ¼ "
To my last trap. E. 300° — 1 mi

to Stallick Lodge Camp

Apr. 16 (Tues.) Up river, to end of short saw-backed ridge on left bank — E. 20° — 2 miles

Up river, to mouth of "Hillick Camp Creek", including some short, rather sharp bends. [About] E. 340° — 5 miles

Apr. 17. (Wed.) Cloudy morning. Rather bright hazy light (very trying on the eyes) until about 11:¾ a.m. when sun came out brightly for the rest of day. Our trail 7:30 a.m. went down river about a mile and a half, and ascended to top of hills by gentle slopes on East side of broad wooded creek valley. Creek apparently rather short, coming from S.W. or W. (north west side of "Justfist Lake" basin). Kept course about N. or N.N.E. all day, and came down mountains through Broad Creek valley just South of Langton Bay house. Carried few sticks of wood from river and made lunch (a light one — our last food) from 12:30 to 2:15. Made tea again just before descending the mountains (6:30 — 7:00 p.m.). Reached the bay ice at 8 p.m. and Langton Bay house at 8:30 p.m. Snow practically all gone from hills — north of mountains — and we had some difficulty picking a sled path through

Apr. 17 (Wed.). little gullies where remnants of old drifts remained. The ground on the flats below the mountains is practically bare, all winter wind-swept, and a few days of warm spring sunshine removes the remainder. Saw a few willow Ptarmigan on uplands and Ikuminik shot two in the morning. Three or four Marmots seen running about on the snow near their holes in afternoon. A few old Caribou tracks seen. Saw two Foxes sitting near a frost hole about ten miles from the coast. They walked up for some time at about 400 yds., but when Ikuminik tried to get a little closer, they ran away. Tannaunirk set two traps at the hole. Our dogs did not pull as well as usual today as they have been on short rations for several days. Some of Alingat's and Komana's people had been at the house since we left, and had left a letter dated April 12th. They had been staying at the fishing lakes near Darnley Bay, and altogether had caught seven White Foxes and one Wolverine and killed one Caribou. They left seven or eight frozen fish in the storehouse.

Apr. 18. (Thurs.) Hazy bright, sunshiny day. Warm and snow melting. Fairly strong S.W. wind. Nannuk went over to whale's carcass to look at traps and shot one Willow Ptarmigan and three Rock Ptarmigan; also saw three Seals on the ice pretty well off shore. In the afternoon a small Seal came up on the ice near house, and he shot it — the first time wounding it in the net. Fortunately he was able to fire another bullet into its head before it could flop into its hole. A Seal is seldom secured on top of the ice unless the first shot penetrates the brain or breaks the neck, as a very slight convulsion is sufficient to enable the Seal to roll into its water hole. Tannannik went across the mountains today to look at his traps set at the Fox hole yesterday. Wind stronger in evening and we had to batten down sticks from line. New moon.

Apr. 19. (Fri.) Bright sunshine in morning. Hazy bright in afternoon. Fairly strong southerly winds. Warm, and snow melting fast. Tannannik returned home about 4:00 a.m., having been out since 8:00 a.m. yesterday. He brought back two White Foxes (♂ and ♀) caught in traps set at hole. The female had twelve embryos in utero (about the size of Horse Mice).

Apr. 19 (Fri.) He also brought back three Willow Ptarmigan, and one ♂ Marmot, the latter very large and fat. Spent day sorting out and packing stuff to be taken to Baillie Island.

Apr. 20. (Sat.) At 7.30 a.m. hazy and foggy to southward and westward; clear to north and East. Everywhere clear after 9.00 a.m. Calm all day. Light SE wind in evening. Many Seals on top of the ice in bay behind sandspit, mostly near mainland shore - six seen at one time. A few Snow Buntings seen on sandspit. Started for mouth of Horton River with three sleds, in company with Olavuirk Tannaumirk and Aivaroliak. Tannaumirk and wife intend to go on to Baillie Island while Kuvinirk and I go back to Langton Bay. Mamayauk and Noashak remained at Langton Bay. Taking silk tent and only absolutely necessary camp gear we are able to haul most of the heavy stuff, archeological specimens etc on this trip, and shall probably bring all that we want to take, easily, on next trip. On trail 3.40 p.m. and kept up a pretty steady trot until 10.00 p.m., camping on low sand beach called Attitiuk Sak (beach making - -deaded curve to northward; plenty driftwood (About 8 miles from Langton Bay).

Apr. 20 (Sat.) Found travelling very good & much smoother ice. Ten or twelve miles west of Langton Bay there commenced to be considerable mud on the ice. In most places this did not hinder, on snow drifts, the dirt had mostly melted into the bottom of little furrows, ~~[illegible]~~ leaving little crests of ice on top, on which sleds passed easily. In other places mud had settled to bottom of little pools of water and young ice forming on top in evening, making pretty good.

Paid Tannaunierk on account of V. Stefansson as agreed at Baillie Island.

1 Savage .30-30 rifle (new). $30.00
100 .30-30 Cartridges.
1 12-ga. shotgun, double barrel ($30. Winnipeg)
125 " paper shells.
25 " brass shells & Reloading tools
Black powder, about 5 lbs. Lead. 12 bars.
Primers 500.
3 steel traps
4 white Caribou skins @ $5.00
1 lb. Chewing tobacco
4 lbs. Russian leaf tobacco
1 Klunk boot
1 Mein heavy felting coat

Rec'd previously, 1 pr. H.B.Co. 3-point blankets $10.00, 2 sacks flour (at Baillie Island), at $10.00 per sack.

Apr. 21. (Sun.) Sky clear at 7.00 a.m. Strong SE wind. Slightly cloudy after 8.00 a.m. Quite warm. Four Rock Ptarmigan seen near Camp about 7.00 a.m. and Manning shot three of them. Nearly all of the snow has disappeared from the hills along the coast; some snow on summits. Last night there was considerable light at midnight, plenty light enough for travelling, but hardly enough light to shoot accurately from about 11 p.m. to 1.00 a.m.

Sky clouded after 16.00 a.m. and wind hauled to SW. blowing pretty strong. Light snow falling from about 5.00 to 8.00 or 9.00 p.m. Sky cleared again about 10.00 p.m. as we approached Horton River, while it looked thick and foggy to Eastward. On trail 11:25 a.m. Passed camp 1 Apr. 3rd (about 20 mi. E. of Horton River) at 2:25 p.m. Tannaumint's sled broke one runner, and we stopped to fix it, and Cook lunch (3:30 to 5:45 p.m.) - opposite mouth of rugged gulch in mountains - creek named Pa (about half mile East of creek). Had two steep rounded mountains, one with a nipple-like protuberance on summit - called Ivi a Tik (from resemblance to a woman's breasts). (Camped here Mar. 21st)

Apr. 21 (Sun) On trail again 5:45 p.m. keeping a mile or two off shore. Passed Eastern End of Horton River sandspit at 10:30 p.m. and reached Capt. Wolki's igloo at 12:50 p.m. Much colder weather here than at Langton Bay, and snow has apparently not melted much. About 5 miles East of Horton River near Igloo where there was much dirt on the ice, there was quite a bit of water in pools in the ice, mostly covered with young ice today. Saw occasional Rock Ptarmigan along the coast today and shot one male. Three or four Walrus seen. Few seals seen today. Two old Bear tracks on ice off Horton River sandspit. Lows NE Igloo 7-8°

Apr. 22 (Mon) Clear, cold. Light NE wind all day. Snow not melting. Reached Capt. Wolki's house a little before 1 p.m. and did not finish cooking and eating before 5:00 a.m. Slept until about 3:7 p.m., then spent some time fixing up things. Tannumirit has no stove to take to Baillee Island and had to bake bread for the trip. As there is daylight enough to travel at any hour everybody takes full time about doing anything connected with starting out

Apr. 22. (Mon.) Left Capt. Wolki's house (Horton River) at 10:35 p.m. for Langton Bay. Sky Cloudy. Light NW wind which soon died down. Very cold.

Apr. 23. (Tues.) Cloudy all day. Calm in morning. Light NW wind about 8th a.m., stronger in afternoon. A few snow flakes flying at 6th p.m.

Passed Camp 7 Mar 21 (20 mi. E. Horton R.) at 3:50 a.m. A little East of Iglulk. Spent an hour chasing Rock Ptarmigan on sloping hillside here. Killed four with rifle, and Ikuminik two. Started again 5:50 a.m. and reached Camp 7 Apr. 20th at 7:45 a.m. Made Camp and slept until about 5th p.m. An occasional Rock Ptarmigan seen along wooded beach near here, but all very wild.

On trail 8:10 p.m. Dark, cloudy, with a few snow flakes flying. Light NW wind. Had some trouble making a straight course across to Langton Bay as dogs persisted in veering Landward unless someone was running ahead. Light snow fall had obscured the old trail so that we soon lost it. Reached Langton Bay house 8:30 a.m. (24½). Saw fresh Fox tracks on ice a few miles west of Langton Bay. At Camping place found old sled runner (which we shared). Length 8' 5", height 5¾"; thickness 1½"

Apr. 24. (Wed). Cloudy forenoon. Fairly strong W. wind. Cold. Mannyauk says that the weather here has been cold ever since we left (Apr. 20th). A large white Wolf has been seen prowling around not far from the house. A Marmot came out near the house this morning. Hauled a load of wood from sandspit about three miles west of house, where whale's carcass was thrown two years ago. He picked the beach pretty clean of wood winter before last, but hauled no wood from there last winter. A good supply of new wood (several loads) had been cast up by the waves last summer. Cloudy and foggy all afternoon, and snow falling most of the time.

Apr. 25. (Thurs.) Cloudy morning. Dull hazy sunshine towards noon. A breath of air from S.W. Warm. One Seal seen in ice inside sandspit. Mannyuk made me a pair of Ugyuk skin mukluk harness and a Ugyuk skin collar stuffed with cotton. Went out on hills southwest of ice house in afternoon. Bright sunshine; light W. wind. Saw fresh tracks of two Wolves, and saw one large tawny wolf which half circled around me, keeping watch at a distance of at least half a mile. No Ptarmigan seen; only a few old tracks.

Apr. 25. (Thurs.) Saw a flock of seven or eight Snow Buntings on sandspit. A number of Marmots were out today on the hill tops, which are mostly bare of snow. Killed three with shotgun using BB shot. If smaller shot is used, the Marmot usually manages to wriggle into its hole, even if badly wounded. I could seldom get within shotgun range of a Marmot sitting near its hole, but by sitting down near the burrow and waiting, the Marmot usually would stick his head out within from one to five minutes. If I remained perfectly still the Marmot would often come a little farther out, and sit up on his haunches to look around. Chased one Marmot into a burrow in a little mound and sat down to wait. Within a minute the Marmot darted out and ran straight for another mound about 150 yds. away, where another Marmot was mounting guard on top. He had evidently run into the wrong hole—the first place of refuge.

Several Seals were on top of the ice in bay after 3.30 p.m. Marmot crawled nearly up to one, but a dog which had followed him out came running up and spoiled the game. The Seal plunged into the hole. Later he succeeded in creeping up and shooting one Seal. He also tried for a small Ugyuk on the ice but could not get near enough. Cleaned up some Ptarmigan skulls in evening.

Apr. 26. (Fri.) Cloudy morning. Light snow falling. Light SW wind. Rather warm. One Seal on ice near end of sandspit; and Ilavinirk wounded it in the neck but lost it. Repairs made on sled runners today. Dug through some seven or eight feet of hard packed snow to get into ice house. Took out about a sled load of dog food — meat all pretty fair, but with strong graveyard taint — some Wolves, Ducks, Swan, Polar Bear and pieces of Ugpik. Our dogs do not usually eat wolf meat unless pretty hungry, but this meat was so disguised with putrid odors that it seems they did not recognize it. Wind in SW all day and night. Somewhat foggy in evening.

Apr. 27. (Sat.) Fairly strong SW wind and new snow drifting a little. Sky cleared for a little while about noon, but snow falling again in afternoon and evening. Ilavinirk went over to the East side of the bay today, as he wanted to see Ahtegat's people about looking after his stuff this summer, while I was at Baillie Island. Cleaned up the head (skull) of a medium sized male Barren Ground Bear which we found in the ice house yesterday.

Apr. 27. (Sat.) This Bear was shot by Ilavinirk some time in early June (1911), about two miles west of Langton Bay house, near the Whale's carcass — (about two weeks before Stefansson came back from Victoria Land, he says). Ilavinirk did not keep the skin because he says it was "bad" shedding hair badly, and hair gone in many places.

*774. ♂ Barren Ground Bear. (Skull) A.M.N.H. 34413. June, 1911. Killed by Ilavinirk.

Skinned some Mice which were trapped in the house while Stefansson was here last December (1911), and which had remained frozen ever since.

			L.	T.	HF.
*775.	♀	Mouse	162 mm.	42	21 mm.
*776.	♀	"	163	42	20 mm.
*777.	♀	"	120	28	19 mm.
*778.	♀	"	122	30	14 mm.

Apr. 28. (Sun.) Cloudy morning. Light snow falling. Light SW wind. Rather warm. Shot Seal on ice about a quarter of mile from house. Light was very bad, dull haze, with no relief. ~~Ascended~~ up in intervals of Seals napping, to what I thought was less than 100 yards and fired. Bullet struck low, and I found distance to be 210 paces.

Apr. 28. (Sun.) Skinned five more Mice today, all caught here last December. When thawed out, hair began to slip from belly of some specimens.

*779.	♀	Mouse	131-30-19	mm.
*780.	♀	"	132-29-19.	"
*781.	♀	"	130-28-19.	"
*782.	♀	"	127-28-21.	"
*783.	♀	"	128-29-20	"

Apr. 29. (Mon.) Cloudy, dull hazy morning - the same as yesterday and part of day before. The light seems rather bright to the eyes, and everything appears obscure - the most aggravating light for causing snow-blindness. Sky cleared a little in the afternoon. Several Seals seen on the ice in afternoon. Tried for four different Seals. Iced boat with no cover. I got to 110 yds of first Seal by crawling but only slightly scratched it with bullet. Second seal was a big one and not so watchful took naps two or three minutes long; got to about 75 yds and put bullet through shoulder. Plenty of blood but seal flopped into the water. Third seal plunged in before I was within 300 yds; and fourth seal when I was at 110 yards. It is only by chance that one is able to make a good shot at over one hundred yards, as the bullet has to go through middle of head to make death instantaneous, and as the head is usually out of plain sight when the animal is sleeping, one has to make a quick shot when the head is raised.

Apr. 30. (Tues.) Cloudy, hazy day; sun barely visible for a little while in the afternoon. Light SE wind in early morning, calm in middle of day, very light N wind in afternoon. Rather warm, and snow melting a trifle. Spent most of morning stalking three. Crawled to my belly 360 paces towards first Seal, but he slipped into the hole when I was 240 paces away. Second Seal flopped in when I was about 200 yds. away. Both these Seals very wakeful. The third Seal seemed stupid, and slept for several minutes each time after looking around. Fired at about 150 yards; Seal looked around but did not move. I thought he was wounded and fired twice more, but Seal lay motionless. I had no more cartridges and ran up. The Seal turned his head around, and looked stupidly at me until I was about 20 yards away, then flopped into hole. Saw Ravens flying over today, and a few Snow Buntings. Hauled a small load of wood in afternoon, mostly small pieces picked up on beach between house and Whale's carcass. Saw fresh tracks of two wolves on beach west of ice house yesterday. I saw two large tawny wolves prowling around the ice house and the graveyard on hillside, evidently smelling the rotten meat which we had laid on the ground the other day

Apr. 30 (Tues.) Names of whalers buried on hill-side during the two winters that ships were in winter quarters here — neatly painted white boards marking the graves, and graves looking as fresh as if sodded up last summer.

A.T. Simmons Died Nov. 16, 1897. [formaly Captain of whaling ship.]

James Parks. S.S. Narwhal. Died Dec. 20, 1897 Age 22 years.

Robert N. Flanders. Died Feb. 3, 1898. Age 47. Str. Beluga.

Antone Lopez Died Oct 5, 1904. Age 45 yrs.

Edward Peters. Died Apr. 23 1905. Age 53 years.

May 1. (Wed.) Hazy bright sunshine in morning. Light Easterly wind. Cloudy in afternoon, and wind northeasterly, rather raw and cold. Clear again at 10:00 p.m. Several seals on ice in forenoon both inside the bay and outside. Spent about three hours trying to stalk two Seals on perfectly level ice. Wore dark skin shirt and was in plain sight of Seals all the time. The first Seal saw me all the time, I think, and took very short naps — of less than a minute. I crawled very slowly trying to see how near I could get. Came up to forty paces. Towards the last, the Seal watched me almost continuously, being so near that I could plainly see his beard. Got up to 110 paces of second Seal, and fired, but bullet went low.

May 1. (Wed.) About 7:00 p.m. Komanna wife Iteayuk and child arrived from the east side of Langton Bay. Since April 12th, he and Aliŋgak's family had spent most of the time on the south side of Darnley Bay, and had killed twenty-two Caribou and caught seven White Foxes. They had been camped for a while some miles up the second river on east (or south west side of Darnley Bay, and had seen a good many Caribou, sometimes more than forty in one herd. The Caribou were mostly near the coast of Darnley Bay, and were not moving in any particular direction. They killed all kinds, cows and old bulls. Embryo Caribou are pretty large now, and haired. Three or four Caribou were seen yesterday between Darnley Bay and Langton Bay. There are said to be plenty of fresh Fox tracks all over the country between Darnley Bay and Langton Bay. There were scarcely any signs of foxes there in February and March.

The people found plenty of willows for wood, for camping purposes up the second river on east side of Darnley Bay. There is plenty of driftwood along the east side of Darnley Bay. They saw no Brown Bears but saw tracks of one. Komanna caught two White Foxes last night. They are pretty fair, but hair is getting a little loose, and is a little harsh at roots of hair.

May 1. (Wed.) Kroadat caught a marmot in trap near house today. Hair I sand pretty lousy. Saw Raven flying over today.

May 2. (Thurs.) Clear bright forenoon. Calm. Warm. Cloudy in afternoon. Light SW wind. Several Seals on ice in morning. Yesterday at place where I got very close to a Seal, I set up some blocks of snow for cover, and when Seal came up today, I easily approached to 50 yards. However my shot went a little high, striking nose and drawing some blood. Seal immediately plunged into hole. Stalked another Seal, and fired at 140 yards, striking head, but Seal floundered into the hole. I must have struck low in the neck as hole was covered with blood and grease. Only one Seal seen in afternoon. The weather being raw and cold. Hannisk and Kowanna spent the day repairing their sleds.

May 3. (Fri.) Cloudy day. Fairly strong SW wind. Cold and raw. Only two or three Seals seen on ice today. A few Snow Buntings seen on sand spit. Stubyuk, Kowanna's wife brought back the piece of cloth which had the Coronation Gulf "Cats-cradles" Fanner sewed on it

May 3. (Fri.) Stefansson had lent the collection to Gunnana, Alingat's wife, to add whatever more they could. She (Gunnana, Baillie Island woman) had sewed on twelve and Ituaiyut (a Kittigaryuit, Mackenzie delta) had added fifteen, and put on two more tonight. They had written the names on some, but the skylight on their house had broken during a storm and they had used the cloth (waterproof silk) for a skylight, and most of the names had washed out. Ituaiyut supplied the missing names, however, this evening.

Cats' Cradles from Coronation Gulf, April, 1911.

Cats' Cradles added by our people (Mackenzie River) during winter.

Twelve by Gunnana (Baillie Island).

By Gunnana: Avatak patsiak = Seal "poke."

" " Nuyaktoyuk = two men holding each other heads fighting (explained by Ilavinirk)

" " Iglit shu Koliyit = Mountains

" " Iliviat tjiak = wooden flute or tool

" " Kimmirk anaktsak = Dog evacuating

" " Umik matjak = two musk-oxen

May 3. (Fri.) By Gunniksa - Paŋner yuuk = two Caribou bulls

" " Sheka iu talōk = some sort of upright rack for drying skins etc.

" " Iŋitkak = Name, meaning unknown to people here (Ituraqyuk, Komanna and Manaqauk); said they supposed it was name of some man. Akomirk says that in Katjuba Sound a bird with broad soft bill smaller than "Crow-bill" (Murre) is called Iŋitkak.

" " Kobyak = Net (for fish, seal, &c)

" " Talirkyuk = the two arms of a person

" " Imirktakłogyūk = person carrying two water-pails

One surnamed Cats Cradle from Coronation Gulf, was pronounced by Ituraqyuk to be Aklak sitilik = Brown Bear in hole.

By Ituraqyuk (Kittigaryuit).

Sa kiatjat = Bracket of Caribou & other animal

" " Kō kaiŋtok = represents some sort of Angakok's performance in which the man is tied

" " Amnaiyaluk = 2 fat Sheep

May 3 (Fri.) By Iluaguk: Kōg yūk = Snow.
" " Irittji Ki nilgit = Sun between Mountain peaks.
" " Nanmaktuaktok = Duck "quack"
" " Okak Kē kōyak = a frozen tongue.
" " Ig lirktuaktok Iluaguk's explanation:

" "
Ki Ilaluatjiak = a White Whale.
" " Nauyatjak = two young Gulls.
" " Nōratjak = " four "
" " Tingmiakpuk = Eagle.
" " Nannūk = Polar Bear.
" " Kilig vatjiak = two Mammoths.
" " Akkayūkak = name of a man in a Sealing Story, who broke up ice on edge of floe by striking with spear.
" " Akkē jigirk = Willow Ptarmigan
" " Tirialuk = Weasel

May 4 (Sat.) Clear and warm in early morning Cloudy towards noon with light S/S wind which became pretty strong in evening, and rather cold. No Seals seen on ice today. Removed everything from storehouse and cached it up on bunk in living

May 4 (Sat) round to keep it dry during the summer. Started up coast for Horton River at 5:00 p.m., with two sleds, Komanna with one. Pretty heavily loaded but reached camp mouth of Beach Hill at 9:30 p.m. (about 12 miles from Langton Bay).

Stuff left at Langton Bay for Ikaonuk and family:

12 sacks flour (600 lbs).
Tea — 6-7 lbs. Oolong.
Tobacco — 12-15 lbs. various kind (black chewing and cut), besides Russian leaf tobacco.
1 Winchester .35 smokeless rifle.
1 " 45-75 rifle.
1 " .44 rifle.
800 rounds Winch. .35 cartridges.
800 " " .30-30 "
850 12 ga. shot gun shells (smokeless
25 " " " (brass)
(400 ?) 10 ga. " "
Caribou skins.
Bear (Polar) skin.
1 Umiak (33 ft. skin canoe).
1 Kayak.
75 lbs. shot assorted from #5 to buckshot.
25 lbs drum black powder.
1 200 ft. seal net (new).
Gill nets.
About 2 tins matches. Primers.

May 5. (Sun.) Cloudy morning. A little hazy sunshine between 7th and 8th a.m. Strong S.W. wind mid forenoon & little in afternoon, and was very light after 6th p.m. On trail 12 M. Saw Seal out on rough ice at 3rd and Skammit went after it - unsuccessful. Started again at 5th p.m. and reached old Camp at creek named "Pa", a little west of Ivirnirk. Seal seen on ice shortly before Camping. A very few Ptarmigan seen - two shot - Rock Ptarmigan 3. on ice near Glacier. Saw a few Snow Buntings -

May 6. (Mon.) Cloudy fore noon - Rather cold. Fairly strong N.E. wind. Heard Rock Ptarmigan Calling in early morning. On trail at 12 M. but soon Komanna who had gone ahead, saw a Seal on the ice and we stopped for over half an hour while Skammit went after it. The dogs were impatient to go ahead and we could not prevent them from howling. The Seal evidently heard, and was very restless, so Skam. did not get within gunshot. Komanna stalked another Seal unsuccessfully. Few more Seals seen on smooth ice when approach was difficult for us. Went ashore near Smoking Cliff about 15 mi. SE of mouth of Horton River and collected a number of specimens of rocks - mostly showing

Nos 865-870 and 879 884 (Mulik Tinicum)

May 6. (Mon.) evidence of being residue of burning cliffs — stood side like vitrified brick, others yellowish, of clayey or cheesy consistency; soft red ochraceous pigment; sooty black shale(?) almost like coal or coke. On top of small hill was a layer two inches thick of whitish, tallow-like substance; other places covered with efflorescence of various salts. Stopped for lunch at 7:30 p.m. on high wooden bench about 10 mi. E. of River (same place as Apr. 3rd). On trail again 8:45; passed east end of Horton River sandspit at 9:45 p.m. and ahead about ½ to ½ mile inside barrier of rough ice outside sandspit. Crossed several little islands or tongues of sand, but there was enough snow on the ground, so that we had little trouble. Reached Capt. Wolki's house 12:45 a.m. (7th). Wind fairly strong ~~NE~~ all day. Snow falling a good part of late afternoon and evening. Wind lowered about midnight. Put up tents on sand-spit east of house, as snow was too deep around house. Letter in house (by Iguana, Wolki's wife) dated April 21st, stated that Wolki had caught two Black foxes and one Cross Fox, and Jacobsen one Wolverine. They had some difficulty

May 6. (Mon.) coming down the river on account of water flooding the ice in place

May 7 (Tues.) Iviid hauled to SW about 2 p.m. after being in NE for a day or more. Did not turn until about 3 a.m. and got up about noon. Cloudy all day; occasional little flurries of snow. Wind SW, but light. Komanna killed one seal on ice near shore, and Iviimuk wounded two more, but failed to get them.

May 8. (Wed.) Cloudy and cold at 12 a.m. Light SW wind. Got up about 12 M, still cloudy, but snow soft and thawing a little. Light NE wind. Started for Baillie Island at 3.40 p.m. with two heavy sled loads, mostly of meat, with only light Camp gear. Komanna & wife accompany us. Komanna started out ahead and killed a seal a little north of end of sandspit. He also went on top of bluffs and saw many Ptarmigan. Saw two Hawks (Rough-legged?) flying along the edge of cliffs. Fresh Marmot tracks seen 5 or 6 yds. out on salt water ice; also a few Fox tracks. Stopped from 8 p.m. to 9.30 p.m. & made tea on primus stove about 2 miles East of point of Smoking Mountains. Cliffs smoking densely in places, much more than in the winter or last month. Berms of the

May 8. (Wed.) Clouds of vapor coming out looked blue and others white the latter probably steam. The natives say that much more smoke or steam comes out in the spring than at any other season — I suppose because the melted snow runs down into the holes onto the hot coals, forming steam. Light snow falling from 8.30 p.m. to 10 p.m. Saw one Seal & one about 6 p.m.

May 9. (Thurs.) Cloudy in early morning. Not cold. Light (E) wind. Passed last of Smoking Mountains and reached our old Camp at Creek gully known as Kuoriat about 3.30 a.m. (about two miles SE of Whale Bluff, and a little more than half way from Porter River to Baillie Island. Turned in at 6.15 a.m. and up again about noon. Nuvuirk saw two Seals out on rough ice and went after them but all but one of the dogs ran out on the ice and scared the Seals. Saw three Rough-legged Hawks soaring about near camp. Cloudy and slightly foggy all day. As our dogs were wandering too far away we could not start out this afternoon, so decided to start for Baillie Island early in the morning. Travelling by day there is a better chance of seeing Seals on the ice. Nuvuirk killed three Rock Ptarmigan and Komanna three. They report Mammoth abundant inland. Some old ruins on hillside. Grass bank of Creek — four whale ribs. Once upright ⋁ to form Canoe rack. many old bones of Seals imbedded in ground.

May 10. (Fri.) Cloudy. Fairly strong SE wind set in 5th a.m. Not freezing, although freezing a little at mid-night. On trail at 7th a.m. and reached Little River village (Nuiaviik) about noon. Stopped for lunch and reached schooner Rosie H. at Bullie Island about 5:30 p.m. Sun came out brightly about 10:30 a.m. and stay clear for remainder of day. Sun dust wind warm, and snow softening rapidly. Saw several Rough-legged Hawks along the coast, and one pair hovering over a nest in a little gully about 3 miles east of Whale Bluff. Took rock specimens: Soft light gray shale flow strata about 10-15 ft above sea level about 3 miles east of Whale Bluff; three specimens of soft shaly, yellowish buff and gray stone from strata about 30 ft above sea level at Whale Bluff; lowest rock exposure about talus slope; overlain by gravelly mud. A little east of Whale Bluff, strata some 50 ft above sea level of gray stone, alternating with yellowish ribbons or stripes, very undulating. Capt. Wolki says that when he came down Barter River April , the river was open to the bottom in one place a little below the Cape Hills and he had to drag sled nearly a mile over bare rocks. River was still solid near its mouth. He took two fresh eggs of Duck Hawk April 18th, finding the nest when it contained only one egg: nest in crevice of rock cliff. He caught two good Silver gray Foxes, and entirely black cross Fox and Jacobsen ate wolverine

May 10. (Fri.) This is said to be the first warm smoking day here for two weeks. First Gulls seen here today. Mr Malina says he saw one down Rose today (the first of the season), but other people think that the bird was a Sea Gull.

Mr Fry, the missionary from Kittigaryuit, was here for two days, coming up in company with Sipaiyuk ("Siffauky"), April . He brought me a note from V. Stefansson dated Pt. Atkinson, April 8th. Eskimos & here say that he brought word that all who wish to be baptized should come to Kittigaryuit. ~~Those~~ for baptism, one fox-skin, and those who have several skins should bring the best one, as God does not want poor skins. Natives who are in arrears for Marriage ceremonies performed in the past were urged to pay up in fox skins.

Four Polar Bears have been killed since we left here March 31st. — one trapped by "Jumbore", a female trapped by Capt. Bernard, and the two cubs taken, one shot, and the other taken alive by Bernard. The cubs were very small, about

and very wild, but kept running about near their dead mother.

A good many Seal have been killed — mostly in open water a few miles off shore. very few seen on the ice, because open water is so near, although four were seen from Steamboat today. Work killed eleven one day off shore from Little River (Kuvia Riv

May 11. (Sat.) Somewhat hazy sunshine in morning. Fairly strong S.S.E. wind. Snow melting, but a little colder than yesterday. Thermometer + 21° Fahr. at 10 a.m. Sun rising a little before 1:00 a.m. Cloudy in afternoon, and wind fast cutting down the snowdrifts. Cleaned up some fox skins which were left with Capt. Bernard last fall — all pretty greasy skins. Saw Capt. Wolki's recent catch of Foxes — one nearly black, seal brown below and a brownish tinge on back a few silvery hairs on rump, a white spot between forelegs and tail white-tipped; the other Fox was a beautiful silvery-gray — silvery hairs intermingled with black along the whole back. The Cross Fox was quite light, nearly red.

Gave Panikeat yesterday for use of his sled, harness and two dogs, two bunches Russian leaf tobacco, 1 lb. black "navy 5", 1 box (200) No. 2 primers, two ½ lb. cans black powder.

Ilavinirk is also going to loan Panikeat one of his dogs (Kuoak) to go to Kittegaryut this spring.

May 12. (Sun.) Cloudy all day. Fairly strong SW wind, rather raw, but snow melting. Colder in evening. Very few people at Baillie Island now — two native families (Jimstones' and Ana Siuank's) on "Rosie H."; on shore Nauyaluk's, Panikeat's, Ana Siuank paluk's, and Kingaktak's, besides Kormanna's, who came up with us. Tulugak and Ukok are

May 12. (Sun.) camped at Nuiaviuk. Ogva Klina Aiokuna Taulana and Ulua have gone to the Mackenzie, and Paintcatt is to start for Kittigazuit Monday. Kutaktak Nunamalluk and Klomina and Tannaminik have gone to the mouth of Anderson River

May 13. (Mon.) Cloudy all day. Strong East wind. Little showers of sleety rain at intervals from 8 pm until after midnight. Paintcatt started for Mackenzie River in morning. Nannuk lent our dog (Kuvak) to Paintcatt. Nannuk and I started for Horton River at 7.15 pm. to get two more loads of our stuff. Borrowed one sled and one dog ("Tullut") from Old John. Reached camp of Ootuk and Tulugak at "Little River" about 8 pm. As head wind was pretty strong and continued rain was threatening, we decided to stop here until morning. Last week Tulugak took a sled from here to bottom of Harrowby Bay, across country, and brought home a load of wood, making the trip in one day. Old Nanganuk told Nannuk that the extreme Eastern end of Harrowby Bay is very close to the Smoking Mountains on Franklin Bay (15-18 mi. W.S.W. of Horton River) From west coast of Franklin Bay at

May 13. (Mon.) this point, the distance across country to a little creek at eastern End of Harrowby Bay is only as far as from About [Cape Bathurst bluff] to Baillie Island village on sandspit" (about 1 or 1½ miles). The country on the flat land behind the Smoking Mountains is said to be the best breeding place for Snow Geese (Kang'ok) and Black Brant ("Nigiik" na'lu'k). Horton River sandspit is said to be a good egging place, but has only the two species of Eiders (Pacific Eider and King Eider) and Gulls.

May 14. (Tues.). Cloudy and foggy all day. Light SW wind in morning, calm for a little while in afternoon, and NE in late afternoon and all night. Light sprinkles of rain in afternoon, snow fell pretty thickly about 4 p.m. and for a little while later. Overslept this morning and did not start from Nuwuk until 11.30 a.m. Stopped for lunch at Kuōrok from 4 to 5.30 p.m., and reached Capt. Wolki's old house at Horton River at 1.30 a.m. (15th). — about 37 miles today.

May 14 (Tues.) Snow melting all day and drifts pretty soft. Open water within ½ mile of shore west of Whale Bluff, and within half a mile of shore off Smoking Mountains (15 miles west of Horton River). Open water off shore as far as could be seen; lead gradually extends further off shore towards Horton River. The young ice which formed in January for some ten miles to the westward of Horton River has cracked badly, and there are many wide cracks, so wide that a sled crosses with difficulty. One large crack runs for several miles from 50 yds to 60 yds. from shore - we crossed it three times, and had difficulty in getting dogs to jump over - when the leaders would jump some dogs would hang back and get dragged into the water. Twice we got pretty close to seal sticking heads up in ice crack. Heard gulls calling this morning - the first time for me. Saw four Snow Geese flying SE along the west of Kugluk at 4 pm. (first of season); one Raven several Rough-legged Hawks and one Duck Hawk (the latter near Horton River).

May 14. (Tues.) Saw American Rough-legged Hawk (Archibuteo lagopus sancti-johannis) sitting on nest on side of a little gully about two miles east of Whale Bluff. When I approached the Hawk flew screaming around overhead. I climbed up where I could look into the nest, but found that the eggs had not yet been laid although the nest was freshly repaired. Snow Buntings singing spring song along the bluffs today. Considerable water on the low flats of sandspit east of Wolki's house so the river has probably flooded badly or possibly broken up.

May 15. (Wed.) Strong NE wind, light snow falling and drifting when we turned in at 5.00 A.M.; freezing a little. Wind still strong NE at noon. As it seems probable that ice travel may be bad by the time we can get here again decided to try to haul all our stuff away this trip, and cache the stuff we expect to use this spring, at Kiu's R.C. 3-7 miles east of Whale Bluff. Spent afternoon packing up, and sorting stuff. Thermom.

May 15 (Wed) went a mile or two east along the sandspit to look for wood for tent poles, but could not go very far on account of water coming out of Horton River. Sunshine in afternoon and evening, but sky clouded up about midnight. Calm for some time just before midnight. I think sun barely dipped below horizon at midnight. About half its disc was above horizon at 11.30 but narrow strip of cloud or fog caused sun to become invisible for a little while, soon after.

May 16 (Thurs) Cloudy at 1:30 a.m. Calm. Sunshine at 7 a.m. light NW wind. Rather cold — fog, ice about and with thick last night, but warmer today.

(443) *5. Capt. Fritz Wolki's old house and store house, near mouth of Horton River. 8 — to — Bright sun 11 a.m.

(444) *6. Primus stove cooking in lee of ice brg. W Smoking Mountains, Franklin Bay. 6.8 — to — B.S. 7 a.m.

Started north from Wolki's house at 11.30 a.m. Warm and sun melting. Sand above. Seals on ice, from house. Seals basking in sun along ice cracks. Ivory gull shot a small reddish seal by side of crack just outside of large pressure ridge about 50 yards from shore, about 1 mile W of house.

May 6. (Thurs.)

Saw four Seals lying close together near a crack in midst of rather rough ice. Crawled up to about 60 yards but bullet would not reach. Some Seals seen on ice within 2 or 3 yds of open water near Smoking Mountains. Young ice formed across the broad leads of shore but many narrow channels and open holes seen. Saw flock of about twenty Snow Geese flying SE along top of bluffs. Shouted & waved at them and they swung around over us. When he fired the flock flew out seaward towards NE. One Gull seen on open water lead. Small flocks of Snow Buntings seen flying SE along the coast, others twittering on the bluffs. Saw several Rough-legged Hawks, and climbed up to the unfinished nest in a little gully a few miles east of Whale Bluff. Stopped for lunch 5.30 - 7 p.m. and waded little Creek at Knock at 12 m. Found Tulugaks family here & had broken sled today and been obliged to stop. Took geological specimens:

* 871. Five mi. North of mouth of Horton River - 15 ft. above sea level. Ice stained cliffs.

* 872. do. Soft yellow sulphurous? rock.

* 873 Smoking hills. about 5 mi. NW. Horton R about 20 ft. above sea level. "Red brick" stone

* 874 do. Black stone 10 - 30 ft. above sea

875. Smoking hts. About 25 mi. NW. Horton River.
15 ft. above sea level. High cliffs yellow stone
May 16. with leafy intercalations
(Thurs) 876. Smoking hts. 15 mi. NW. Horton R. "bituminous shale"
877. do. Residue of burning cliffs
878. " " " "

880. Smoking hts. 10-15 mi. NW. Horton R. "Rock butter."
881- do.
882- " 20 mi. SW. - flaky stone Gray stone.
883 - Cliffs 5 mi. N. Horton River. 2 specimens

May 17. Clear bright sunshine all-day. Very warm.
(Fri.) Reached Kuoriok at 12.30 a.m. Turned in 4.15 a.m. and got up at 9.45 a.m. Cached here our Lacys Collecting Chest, 1 long box miscellaneous stuff, 1½ sacks flour and Wolki's canoe which we brought from Horton River.

Tulugat shot a Seal this morning but it was a pretty rank tasting and smelling male but the boys stole a few Rock Ptarmigan. The boys went to Whale's Carcass 2-3 miles East to cut some blubber today and the family expected to start East tomorrow and spend the summer at mouth of Horton River - to put up a few pokes of Seal oil this spring and live on Eiders Ducks' and Gulls' Eggs during the summer.

Harvinist and I started west at 2.30 p.m. Stopped to cut some whale meat from Carcass and 7 whale bluff and reached Little River Nu-rawik at 7.30 Tornanna's and Ukok's families here

May 17. (Fri.) Komanna's people came from Baillie Island yesterday and Nanayauk and Nopishak with them. Report no meat at Baillie Island — open water several miles off shore and people who had been out had killed no Seals recently. Ukok caught one White Fox this week. The fur still looks pretty white. No Geese or Ducks have been seen here, but Ukok shot a fat Sea gull yesterday. Ochotak saw an Arctic Hare yesterday. Rock Ptarmigan very abundant now. Snow has melted away only on edge of bluffs, but country inland is still snow-covered.

Paid Ukok (on account of Panuteak, for use of P's dogs and sled), 10 lbs. shot, and 2 half-pound cans of powder.

Started for Baillie Island at 10 p.m. Sun well above the horizon at midnight. Very cold; snow frozen hard. Dogs pulled much better at night than they had done during the day. During the heat of the day they were almost too lazy to move.

Navinirk saw one Old-squaw Duck (Harelda hyemalis) today.

Received from Navinirk eleven White Fox skins, share ½ of skins trapped during winter.

May 18. (Sat.) Clear, bright day. Light NE breeze. Very warm after the sun was well up. Reached Baillie Island village at 2.40 a.m. and put up tent. Mamayauk walked along the bluffs from Nuwuk to Cape Bathurst (about 6 miles) and killed eight Rock Ptarmigan with 20 ga. shotgun. We kept out on ice with sleds. Ilavinuk went ashore twice and shot six more Ptarmigan. Saw a Rough-legged Hawk sitting on a Marmot mound.

Capt. Bernard says that Ptarmigan were rather scarce until a few days ago, when they became numerous. Two days ago, he saw hundreds (all Rock Ptarmigan), and shot fourteen.

Mrs Bernard (Iguana) presented me with a cloth-lined Seal-skin coat, trimmed with Musk rat fur.

Bernard took his cub Polar Bear out today, and put him in cage on his rack. The cub is smaller than a large dog, and dirty yellowish brown color. Bernard says the cubs were dirty when first caught, as if they had just come out of an Earth burrow. Cub very wild now and growls if any one comes near. Took two pictures.

(445) * 7. Polar Bear Cub. 6.8 – 1/100 – B.S. 6.3 p.m.

(446) " 8 do.

Bernard also took two pictures while I held the bear.

May 19 (Sun.). Clear bright warm day. Light East wind. Saw a Turnstone or large Sandpiper which alighted on the sandspit for a minute and then flew off again before I could get gun or field glasses. This is the first shore bird I have seen although Old John said he saw one near Cape Bathurst four or five days ago.

Paid Capt. F. Wolki, thirteen (13) White Fox skins, in full, for supplies bought by Mr. Stefansson and myself, and for natives in our employ:—

4 sacks flour	1 sack flour	Flour @ $3.-
4 tins baking powder	4 pr. socks.	and for
10 lbs. tea	1 suit underwear	Knit @ $2.-
6 yds. ticking	2 lbs. tobacco	

For Tannamurk: 2 sacks flour, 2 lbs. tobacco — at rate of 1 sack flour = 2 fox skins and 1 deer skin = 1 fox skin (Native price).

May 20 (Mon.). Clear until about 2 P.M. Cloudy afterwards. Snowflakes flying after 7 P.M. Strong NE wind all night and throughout the whole day. Stored all spare stuff in Wolki's warehouse, and started with Kavinirk and family down the east side of Liverpool Bay, on a goose-hunting expedition. Borrowed one sled from old Nanyaouk, as two light sleds run over the soft snow much better than one heavy one.

May 20 (Mon.). Fred. Jacobsen with Richard Ahsuniark and Mannayaurk Paluk started the same way about 10th a.m. We got under way at 12:15 p.m. I went ashore to hunt Ptarmigan at first point and sled went along coast. Shot fifteen Rock Ptarmigan and lost my gun rod, and spent about three hours looking for it. Ptarmigan numerous everywhere, singly in pairs, or groups of three or four, courting. Saw one Snowy Owl, and a few Snow Buntings and Lapland Longspurs (Calcarius lapponicus) - first Longspurs of season. Iaunark shot 11 Rock Ptarmigan = 26 total. Considerable water on ice near shore about ten miles from Baillie Island near Kutaila not. Land nearly bare of snow for about ½ mile from coast, but snow-covered inland.

Compass Bearings: -

From end of Sandspit at village:

To Cape Bathurst bluff (Abvuk) E. 70° 1½ mi.

To 1st point on mainland east side of Liverpool Bay E. 150° about 4-5 mi. (A)

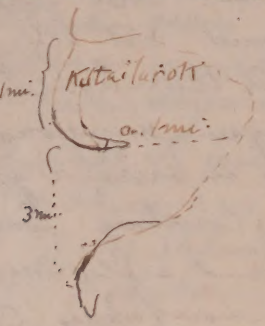
To southern tip of Baillie Island. E. 170° - 5 mi.

From (A)

To Abvuk (Cape Bathurst. E. 345° ca. 5 mi.

Three long points, with deep indentations between (one point projecting beyond line from (A) to Abvuk)

May 20. (Mon.) To southern tip of Baillie Island. E. 240° – 6 mi.
To 2nd point south (Liverpool Bay) Ⓑ E. 120° 5 mi.
South bluff – 30–40 ft. high, some deep gullies.
From Ⓑ, north end of long sandspit, known as Kōtai'ia rōk. A large lagoon, or rather a triangular bay, with western side half-closed by sandspit.



Back sight to Ⓐ E. 300°
To bottom (eastern end of lagoon E. 45° ca. 2 mi.
To highland opposite end of sandspit. E. 98°. 3 mi. (Cor: 5-30-12 E. 80° – 5 mi.

May 21. (Tues.) Strong NE wind all night. Wind hauled a little more to north, and blew strong all day. Cloudy and snow flying and drifting all forenoon, thick weather, and rather cold. Started out at 9.00 a.m. Passed about a mile along sandspit and some little banks terminating in another long sandspit, called Ūmigō'vik (the place where canoes are made or repaired) – this marks the northern end of Harrowby Bay. Crossed mouth of Harrowby Bay and reached high bluff called Ikpisūgyūk at 11.30 Long wooded (duff) sandspits on both western and eastern sides of bluff. Many old house ruins on east side where we made camp. ... des some maps.

May 24. (Tues.) Wind blew a strong gale all day and we had some difficulty pitching tent. Sun shining a little in afternoon through haze of drifting snow. Sky cleared a little in afternoon and wind moderated a little. Ilavinirk went out and shot sixteen Rock Ptarmigan; Atkasinauk killed about ten. Female Ptarmigan have heads pretty well mottled with brown, and backs thickly pin-feathered. Cloudy again in evening and wind strong from West (true) about 10 p.m. Saw one Horned Lark (Otocoris hoffi).

Compass bearings from top of bluff at Ikpisuggyuk

To point of bluff at Tut Kaiak E. 190° - 3 mi.
" outer edge of long sandspit curving out from Tut Kiuak E. 230° - 800 yds.
(Sandspit very narrow near western end, curves to north and East, terminating in a broad triangular expansion at Eastern end. East End separated from Ikpisuggyuk bluff by a channel about 800 yds across.)

To Unigovik
E. 350° ca. 12 mi.
To west end of visible land E. 280°

Saw a number of Rock Ptarmigan on top of bluff from 8 - 10 p.m., but all pretty wild. Many small spreading mats of ground willows on hills.

May 22 (Wed.) Cloudy morning. Strong West wind. Occasional flurries of sleety snow. Sun came out bright about noon — but sky soon cloudy again, and snow falling in afternoon. Wind hauled to North in evening — Cold and raw. Went up on hills and shot nine Rock Ptarmigan. Saw one Snowy Owl, several Snow Buntings, and a few Marmots. Skennerk saw one Eider Duck going north today. Adamanut killed a large Gull and Jacobsen eight Rock Ptarmigan. Found still north at midnight, and a little sleety snow falling.

May 23 (Thurs.) Strong NW wind in forenoon. Cloudy. Bright warm sunshine in afternoon, and wind lower. Cloudy again in evening. Wind very light. Went out on hills to southward — across the peninsula between Harrowby Bay and the long narrow bay running inland about ten miles east from Tuktaiak — about 2½ miles across.

Compass bearings — from highland on south side of peninsula, about ¾ mile from the sea

To Tuktaiak E. 240°

To east end of long bay E. 60°

Bay long and narrow, slightly curving to southward; north side somewhat indented

May 23 (Thurs.). Shot eighteen Rock Ptarmigan and Mavinirk thirty-seven. Ana & Sinauk got twenty-seven and Jacobsen seven. Ptarmigan are mostly in pairs scattered every two or three hundred yards over the land. Sometimes two or three males seen together, and I saw one flock of seventeen. They were flying about a great deal. Before alighting a ♂ Ptarmigan usually soars up 30 to 50 ft. from the ground, then drops down with a rattling, croaking note. On the ground ♂'s often strut around with tail spread and wings drooping. One ♂ was with two ♀'s. He kept hotly after one for several minutes, then gave it up and followed the other. Neither ♀ would let the ♂ come nearer than two or three feet. Saw three Gulls (Short-billed Larus brachyrhynchus?), a few Snow Buntings and Lapland Longspurs; one Snowy Owl and one Rough-legged Hawk. Skinned ♂ Ptarmigan #790. ♂ Lagopus rupestris. Hulaundy Bay.

May 24 (Fri.). Cloudy all day. Strong NW wind. Occasional flurries of snow. In camp most of day. Wind lowered in evening and I went out along foot of bluffs (Ikpisuyuk), and collected geological specimens. Cliff nearly vertical for 400 ft. above sea level — soft, light gray shale or clay, which breaks away in irregular fragments leaving heavy overhanging ledges below. #791. Shale, about 100 ft above sea level.

May 24 (Fri.)

*788. Rock - yellowish stone from stratum about 3 in. thick somewhat undulating, from 10 - 20 ft. above sea level.

*789. Rock - from stratum of black finely broken fragmental, about 3 in thick - about 20 ft. above sea level.

Saw a Raven fly out from face of bluff and kept circling about & within gunshot, watching me. Probably has nest, as I saw Raven at same place the other day, but I could not find nest. One Short-billed Gull flew over. Came across the hills about one mile but saw only eleven Ptarmigan mostly in pairs. Shot ten, one female had back nearly all brown, the others were nearly all white. Slavinik shot seven Rock Ptarmigan with 22 rifle.

May 25. (Sat.)

Cloudy forenoon. Light S.E. wind. Melting a little. Clear in evening. Colder. Went out afternoon and shot twenty-two Rock Ptarmigan. Skinned one ♀

*791. ♀ Lagopus rupestris. Harrowby Bay. Saw one Gull and Rough-legged Hawk, one Horned Lark, a few Snow Buntings and Marmots. Ptarmigan were not very wild today, and mostly in pairs, the male either strutting about or sidling up to the female, or else the male perched on a little hummock and the female crouched in a little hollow close by. Most females have

May 25 (Sat.) traces of brown feathers at least on the head. Ovaries well developed some with egg yolks as large as diameter of .38-55 bullet.
Jacobsen shot twenty-six and Ana-suanik seventeen Rock Ptarmigan. They have become tired of waiting for the Geese to come, and decided to shoot a hundred or more Ptarmigan to take back to the schooner. We shall probably stay a little longer, as Ptarmigan are about the only game in the country, but are only shooting enough for our immediate use. The game is almost too small to pay for the ammunition used in pot-shooting. Iavinirk shot twenty Ptarmigan in the evening and Mr. Jacobsen's and Ana-suanik's total today was sixty-four.

May 26. (Sun.) Clear day. Strong East wind and cold. scarcely melting in sunshine at midday. Jacobsen and Ana-suanik killed about forty Ptarmigan and Iavinirk five in the morning. Geese heard occasionally, but no sight of Geese since we arrived here.

May 27 (Mon.) Clear, bright, sunshine all day, but rather cold. Strong NE wind, snow melting a little. Jacobsen and Ana-suanik gave up waiting for Geese and started back to Baillie Island, taking about a hundred Ptarmigan.

May 27. (Mon.) We started out at 1.42 p.m., mooring along the sandspits on south side of Harrowby Bay, about six miles.

Compass Bearings:

From first big bend of sandspit (A) (looking back to Ikpikpuk) E. 20° 3 mi. (Suppl. - to E = E. 20°).

From (A), ahead, E. 30° - 1 mi. to (B) (bend of sandspit - plenty of driftwood) - flat land behind, ½ - ¾ miles wide, running into lagoon at Eastern end; Rolling hills to Southward.

From (B). E. 20° - 1 mi., across entrance to lagoon bay, - to another sandspit (C), making out from mainland.

From (C) E. 60°, along sandspit about 4 mi. to conspicuous high ridge some distance inland from East End of Harrowby Bay. Low land there with driftwood for half a mile back from coast, behind this sandspit, backed by steep ~~[illegible]~~ ing hills 30-40 ft. high. Land behind flat, covered with low spreading willows about 1½ - 2 ft. high.

Camp on long sandspit, about 3 mi. from Eastern end of Harrowby Bay. Sandspit has a channel into lagoon at Eastern End, the same as the two sandspits to Westward. Much driftwood, mostly Cottonwood.

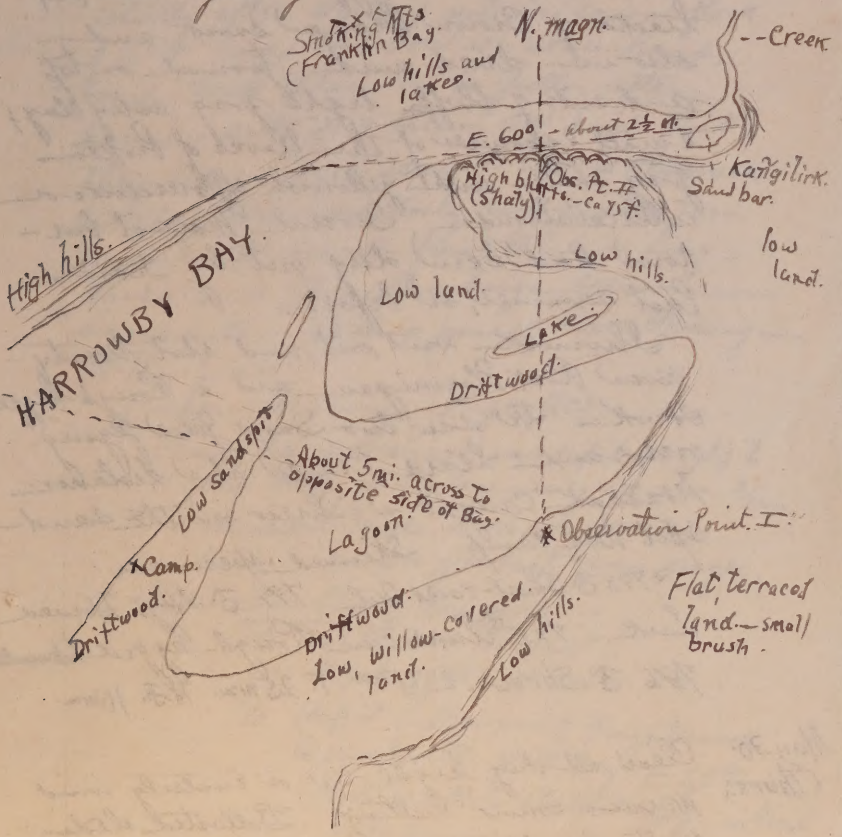
May 27 (Mon.) Ilavinirk saw two different kinds of Snipe in the morning — one "Liwalliwak" (Semipalmated ?) and one Tuliáliak ( ). Saw one Seal off shore on ice, but he [illegible] unsuccessfully as ice is smooth except for an occasional small tide crack upheaval. Saw one flock of 7-8 Short-billed Gulls going East, and another flock of 15-20 birds at a distance (either Gulls or Geese flying in line) About 5:20 p.m. two Snow Geese flew over in direction of Smoking Hills. Ilavinirk and I went up on table-land back from the coast, from about 6:30 to 10:30 p.m. after Ptarmigan. Saw Ptarmigan scattered everywhere, and shot thirty-two Rock Ptarmigan, Ilavinirk twenty-five Rock Ptarmigan and one Willow Ptarmigan. I saw no Willow Ptarmigan, and Ilavinirk only one pair, but killed only the ♀. ♀ Willow Ptarmigan had feathers about half brown. A few ♀ Rock Ptarmigan had feathers on the back nearly all brown, while others looked almost white. One ♂ Rock Ptarmigan had a patch of dark feathers on side of neck, but others were entirely pure white. Saw a Snowy Owl sitting on a mound but could not get very near. Short-eared Owls were

May 27. (Mon.). quite numerous, hawking over the flat, brush-covered ground. Occasional Short-billed Gulls flew over, and one Snipe alighted (Dowitcher?) but got away before I could get in a small shot cartridge. Longspurs abundant, and a few Snow Buntings seen along the coast. Saw an Arctic Fox hunting Ptarmigan on the hills, and fired twice at about 300 yds, but missed. Hair was white in spots, with large blue areas on hips and shoulders. Mamayauk said that Cranes were heard near camp while we were gone. Shot one Longspur.

#792. ♂ Lagopus Rupestris.

May 28. (Tues.) Cloudy after 12m., but sunshine in early morning. Strong NE wind. Skinned Ptarmigan and washed some clothes. Went out on willow-covered flats in evening and shot twenty Rock Ptarmigan in two hours. Two Snow Geese flew east along bluffs, against strong wind about 9.30 p.m. Fog came up for about an hour, from 8 to 9 p.m. but soon cleared away. Saw numbers of Longspurs and a few Snow Buntings today, but no other birds. Ilavinirk spent most of day making floats for sweep net.

May 29. (Wed.) Cloudy all day. Very light S W wind, but practically calm most of the time. Hunted to East and North East to Bluffs overlooking extreme Eastern End of Harrowby Bay.



Shot twenty-five Rock Ptarmigan. Ptarmigan abundant everywhere. A few Short-billed Gulls flying about, occasionally seen to alight on ice. Shot one, also one Short-eared Owl. One Horned Lark seen and shot. Longspurs abundant, a few Snow Buntings seen.

May 29. (Wed.) Three American Rough-legged Hawks flew screaming about the high bluffs looking N.E. from high bluffs overlooking eastern arm of bay. Found two nests but no eggs. Saw here old tracks of Brown Bear on snow, and also in dried mud. Ground on top and side of bluffs light gray ashy clay; small exposures of thin leaves of broken gray shale with yellowish efflorescence or intercalations. Several marmot burrows had been dug out by bears last summer, or before.

Slavinirk went out and shot twenty-seven Rock Ptarmigan and a Rough-legged Hawk. He saw two Snow Geese flying over and heard Cranes at a distance. Noashak caught a Shrew on the sand-spit near camp. Skinned specimens:

#793 ♂ Short-eared Owl. 794 ♂ Hoyt Horned Lark. 795 ♂ American Rough-legged Hawk. 796 ♀ Shrew - L. 71 mm. T. 25 mm. H.F. 10 mm.

May 30. (Thurs.) Clear all day. Light SE or Easterly wind. Warm. Snow melting. Ballasted sloop pretty heavily with good wood (to haul same to Baillie Island), and started at 2 o'clock p.m. the ice to NW corner of Harrowby Bay. Ice smooth, and no large ice. Entered until entrance of bay is reached. Delayed about ½ hr. to try for a Seal which was basking on smooth ice near

May 30. (Thurs.). reached tip of long sandspit running out into entrance of Harrowby Bay at 5:30 p.m. Stopped for lunch. Quite a bit of driftwood here, remains of old kayaks, umiaks &c. Camped at Kutailaiork about 9 p.m. Shortly after starting out, we saw a flock of 12-15 large birds on ice near camp, and took them to be Gulls. After passing outside of them we saw that they were Snow Geese. Tried to approach but they flew noiselessly away when we were about 200 yds. from them. Long-spurs and Snow Buntings seen on sandspits. Shot a pair of Rock Ptarmigan at Umigôvik.

Compass Bearings (Magnetic):

From tip of Umigovik sandspit (angle) to low bluff at its beginning E. 300° - 3/4 mi. Sandspit bends at rt. angles and runs 4 or 5 miles east from angle.

From same (tip of Umigovik) -

To Kutlaiork E. 160°

" Ikpišuggiork E. 125°

To bluff at Eastern end of Bay (Second Observation Pt. yesterday) E. 65° - 15 mi. (about 10 miles to our last Camp - in line with same).

From Umigovik - to Camp of May 30th E. 240° - 2 mi. Coast indented by a shallow bay running in about 1/2 mile. At north end a low sandspit about 1/2 mile long runs out from a bunch of low sandy hills.

From last: To Kutailaiork - E. 260° - 5 mi.

May 30. (Thurs.) From Kutailaiok - back (Corrections of May 30th)
To Tuttkaiak - E. 120°.
" Ikpisugyuk E. 110°.
" tip of Nicholson Island (?) E. 135°.
" bend of Kutailaiok Sandspit. E. 100° - 1 mi.
Sandspit bends at right angles, running about 1 mile further.
" tip of sandspit E. 80° - 1½ miles.
From Kutailaiok (ahead) - E. 300° - ½ mi.
Slavinirk shot fifteen Rock Ptarmigan near Camp, and I three, about midnight. Pretty Cold, and snow crunched badly under foot, making approach to Ptarmigan difficult.

May 31. (Fri.) Hazy foggy morning. Sky cleared a little in evening, and quite clear at 10 pm. Light NW round all day. Calm at 10.30 p.m. Left Kutailaiok at 12.30 p.m. and reached Baillie Island about 5 p.m., travelling pretty slow. In many places water on ice 8-10 inches deep, with crust on top over which sleds passed all right. Sleds very seldom broke through, but our feet often broke through. Saw a few Gulls, but no Geese until within ½ mi of Baillie Island, when three Snow Geese flew over us to Eastward. Two large flocks passed over schooner "Rosie M." today, and Nanyaouk saw a flock on the land near Cape Bathurst today. Saw two Sandpipers flying over; also a few Longspurs, Snow Buntings and Rock Ptarmigan. Capt. Bernard was aboard on

May 31. (Fri.). Baillie Island and reports Rat Harnigan abundant; he shot twenty-five, also saw about forty Snow Geese flying over. Yesterday he saw two Little Brown Cranes on the island, and shot one with rifle. The Crane was very fat.

At Kutailarok found an old grave about 150 yds. back from the point, on a little knoll. It was pretty old and pieces of wood, etc., were scattered about over the ground for several yards - fragments of an old umiak, pieces of wooden sled (runners about 6 ft. long 8 in. high,) shod with whalebone, shaft of spear, pieces of snow probes (for sledge) (799-800); wooden vessel (a. 7-12" joined with pegs), bone adz(?) handle, and several arrow shafts (797) (heads all missing). Most of the pieces were half imbedded in the ground, and ground frozen hard. The only bones seen were human lower maxillary - evidently an old man, half of teeth missing and other teeth much worn. Took two arrow shafts, one one-piece probe, and another seal hole probe (in three pieces).

Base of Kutailarok sandspit, starts from tip of a peninsula (flat, dry land, about 10-15 ft. above sea level), from 200 to 400 yds. wide, with long narrow bay from 300 to 500 yds. wide, running nearly parallel with the coast line, for about two miles north.

Compass Bearings of Coast.

From Kutailarok E. 300° - 3 mi.
E. 310° - 3.5 mi.

June 1. (Sat.) Clear in morning. Light NE wind. Cloudy in afternoon and evening and wind NW. Freezing at midnight. Started at 2.00 p.m. to get a sled load of wood from S.W. sandspit. Crossed big island to N.W. side, ground mostly covered with snow, with numerous bare spots. Saw Snowy Owl, Ravens, Rough-legged Hawk, Ruddy Turnstone, Longspurs, Snow Buntings, flock of Sandpipers going east, flock of Terns (?) going same way. One flock of about twenty Snow Geese flew east along north side of island. Saw three large flocks of Pacific Eiders (both males and females) flying in towards west side of island coming straight from SW direction of Cape Dalhousie. Ptarmigan not very numerous today, and I shot only four, but did not go out of my way for them.

Mavinik, my native assistant, quit my service today. Both he and his wife have been sulking for several days. While at Harrowby Bay, he kept continually grumbling because he considered his time wasted hunting for birds (Ptarmigan, &c); said he wanted to go and cut blubber from Whale carcass near Smoking Mountains, and hunt seals to make oil for next winter.

June 1. (Sat.) that shooting birds now, ~~and~~ longer, him no good next winter. He also kicked because it took too much ammunition to kill enough birds to live on. That was unreasonable, because we have plenty of ammunition here, and enough that I gave ammunition left at Langton Bay to serve him two or three years (Berkley & Cutting). However, he seems to consider that everything left will be his perquisites (for trading next year), and grudges me the use of my own supplies for this summer. The woman was sore because I suggested that she had better boil up some of her own and her husband's clothes to free them from lice, which were getting pretty thick since our stay at Baillet Island, and that I was tired of washing my own clothes to free them from parasites, while she seemed to have plenty of leisure time, with Ikwinik doing a good part of cooking, picking Ptarmigan, and washing his own clothes, besides hunting and chopping wood. This made both of them warm under the collar, and they afterwards quoted me as saying that all Eskimo people were dirty, lousy and lazy. They didn't discharge me at that time, and matters quieted down. Last night I told Ikwinik that I intended to start down the coast Sunday or Monday, to hunt more birds. Geese, egg &

June 1 (Sat.)

and give him a chance to cut whale blubber etc.; also that we might not come back here for two or three weeks, when there might be a good deal of water, too much to haul wood, and not enough water for boating, that we would probably have to be here three or four weeks waiting for ships on a woodless sandspit, and I wanted to haul two sled loads of wood from SW sandspit. This morning Havirluk announced that he was going out sealing, and that I could go for a load of wood if I wanted to. This brought the issue — whether he was working for me, or I working for him. Then followed a long re-hash of his oft-repeated tale of grievances (some of them most trivial and absurd), as far back as his trip to Cape Smyth with Stefansson in 1909, at Bank Island in 1913, up to the present time, that he had been stinted in tea, flour, etc, while he had supported Stefansson and myself for four years, supplying meat and skins for clothing by his prowess at hunting, etc etc., and announced that he was going to quit. I told him that he had better remain for a month or two, until the "Belvedere" comes; that if I hired outside help I would have to give away some of the stuff which I had on hand, for payment

June 1. (S.A.) He said that he wanted none of the stuff either at what is here or at Langton Bay, that I had better sell the ammunition &c. - it was nothing to him (See May 28), and he didn't care whether I paid him anything or not - that he could buy what he needed. In the next breath he would complain of being a poor man. As he has no sense of logic, and contradicts or shifts his position when I agree with his statements, argument is merely waste of words. Finally he wanted a statement of what was due him, and written terms of settlement. I made this out and Capt. Fritz Wolki, of Rogie H., witnessed that everything was satisfactory.

I shall have a small load of collecting gear, &c. cached near Whale Bluff, and told Ikavinik that I was going after that pretty soon. He asked how I could do that, without dogs. I said that Ples was mine and two dogs "Roger" and "Akelik". They claimed Akelik for the first time today, saying that Stefansson had given it to them before he went away. This was news to me, but when I suggested that perhaps he might like to use some of the ammunition this spring, he came off his high horse, and said that I could use his dogs, or he would haul the stuff himself. When I came home in the evening, he seemed pretty well repentant.

June 1. (Sat.)

Terms of settlement with Ilavinirk (Anderson) according to verbal agreement with Stefansson in March 1912, and Stefansson's written agreement with Ilavinirk April 2nd, 1910.

Wages for 1908-1909 = Whaleboat (Paid)
" " 1909-1910. = $200.00 (Due)
" " 1910-1911 = $200.00 (Due)
" " 1911-1912, to be $200.00 if year is finished. If working year is not finished Ilavinirk is to be paid for such time as he remains in our service.

Each year ends July 31st of each year.

Ilavinirk agreed with V. Stefansson in March, 1912, that Mr. Stefansson should use Four Hundred Dollars ($400.00) of above wages to purchase certain supplies in United States or Elsewhere, to be shipped to Cape Smythe, Alaska or further east, by earliest available freighting route.

Balance due for year 1911-1912 to be paid during summer of 1912, in money or supplies, or both.

Agreed today, that as Ilavinirk wishes to terminate his contract June 6, 1912, that the sum of One Hundred Sixty-seven dollars ($167.00) is due him for this years work.

Signed
R. M. Anderson
Anderson Ilavinirk

Witnessed by
Frank Wolki.

June 2 (Sun). Cloudy morning. Light NE wind. Rather heavy showers of rain starting about 11.00 a.m. Large fleet of Pacific Eiders flew across sandspit going East about noon. A few Gulls and Sandpipers, and one flock of Snow Geese seen. Ochokat and some women came over from Little Whale Bluff today, bringing the Snow Geese. Ochokat, Ekpk, and Komanna killed eighteen yesterday, on top of bluffs, flying east. Bought from Ochokat one Swan and Owl (killed yesterday) for two packages cigarettes. Nabinuk and family went back with them in evening.

Nuvinuk let me have use of one dog "Britton", for some shot, and agreed to bring me an 18 gallon can fully of whale blubber, for some primers. Yesterday all my stuff was considered worthless by him, but today he assumed that all stuff brought from Lakeyton Bay was for his free use. I told him that as he was no longer working for me, I could not let him have my stuff freely as before, which I was in need of, to barter for wood and extra help I might happen to need. However I told him he could have certain articles from me, on account, at less than store prices, so he could not say I was leaving him destitute.

#797. ♂ Nyctea nyctea. Shot near Cape Bathurst.

Capt. Wolki bought five Snow Geese from Mrs. Komanna for ten cups tea and two packages of matches. Price asked was 1 Goose = 3 cups tea.

June 3. (Mon.) Cloudy morning. Light NE wind. Pretty thick fog at times. occasional sprinkles of rain and sleet towards noon. A little hazy sunshine in afternoon. A few flocks of Old-squaws flying over. Snow Buntings singing most of the time. Ds perching on houses, tent poles, & anywhere, as tame as English Sparrows.
Moved my stuff over and put up tent near Bernard's house. Skinned Hawk and Owl. Snow Geese purchased yesterday by Capt. Wolki were very fat.
A day or two before I got came here (about May 24–30th), someone shot a ♂ Duck Hawk (Falco peregrinus anatum) near Cape Bathurst and brought it to Capt Wolki.
Ana'siniark and Jarbour started out last night to take in some traps near fishing lake a few miles to SW. They returned about 8 pm. with four Snow Geese and one Gull. did not see very many Geese. Nanyaruk saw one flock pass over Cape Bathurst today.

June 4. (Tues) Cloudy and foggy all day. Light NW to easterly wind. Snow falling at intervals but melting as it fell. Sky occasionally cleared a little but fog soon came back. One flock of Snow Geese. three "Gray Geese" and a large flock of Black Brant flew over sandspit. quite a number of Old-squaws. Large flocks of Eiders seen going over Cape Bathurst.

June 4. (Tues.) Spent the day repairing a bunch of my old summer hunting clothes.

June 5. (Wed.) Cloudy foggy morning. A few sleety snowflakes flying at 9 a.m. Light NE wind. Rocks H. people hunting around point of Cape Bathurst in morning and shot twelve Ducks and two Snow Geese. Several flocks of Snow Geese reported on flat land back of Cape Bathurst. Wind died in afternoon and shot six Rock Ptarmigan. They are getting rather scarce, and wild here. One flock of 10-12 Snow Geese and one flock of Black Brant seen on flat land but I could not get near. Several small flocks of both species seen flying over. Numbers of Jaegers (all Stercorarius pomarinus) seen flying steadily eastward, singly or in pairs. Saw several Pectoral Sandpipers (Tringa maculata), the first seen, ♂'s rising in air, with inflated breasts, uttering their characteristic spring "booming" note. Longspurs and Snow Buntings numerous and noisy. A few small flocks of Old-squaws and Eiders seen going East. Clear sunshine after 3 p.m. but thick fog again after 8 p.m. Wind SW in afternoon.

June 6. (Thurs.) Light snowfall, enough to whiten ground, during early morning hours. Bright sun in forenoon. Brisk NE wind. Ovagnuk and Okhokat came up from Little Whale Bluff and returned in evening. Ovagnuk brought seven Geese killed since Sunday.

June 6 (Thurs. Ikavinuk sent one Snow Goose and one Black Brant to Bernard, also some Ptarmigan & Rock Ptarmigan to be traded for tea. Nanyaouk was out all day and killed two Eiders. Geese not flying today. Wolki's people shot some King Eiders and Pacific Eiders.

June 7 (Fri.). Sunshine in morning. Wind NW. Cloudy in afternoon. Wind SW. Large flocks of Eiders going east near Cape Bathurst. Put on axe handle, and replaced various gear. Bought 2 pr. cotton socks from Capt. Wolki for $1.00. Wolki and I and Spit near Cape Bathurst and shot one Snow Goose and one Black Brant. Bernard cleaned 4 Rock Ptarmigan shot last Friday and found white hard-shelled egg in oviduct.

Loaded up sled and started East alone at 4.25 p.m. — two of my own dogs (Roger and Britton) and Nellie (Eskimo) from Old John. Reached Little River at 8 p.m. and stopped for lunch. Saw a few small flocks of Black Brant, Eider and Sq. going east. Shot 3 Rock Ptarmigan. Trail fairly good — broke through crust of ice into 8 or 10 inches of water occasionally. Still large snow drifts soft and crumbly. Reached native Camp at Little Whale River at 1.00 a.m. (June 8th); starting from Little River at 9.30 p.m. A few Pomarine Jaegers and Gulls seen going east, also Sandpipers.

June 7 (Fri.) Compass Bearings.

From E. end of Sandspit to Cape Bathurst E. 1½ mi.

From "John Whitbread Gully." (Grave of Richard Brooks, Bk. John Whitbread, died Aug 4. 1845, aged 21 years) -- mi. E. of Cape Bathurst

To "Rosie H." (end of sandspit). E. 250° mi.
" N. end Baillie Island. E. 260° "
" Second Big Gully (point E. of gully). E. 65° - 2 mi.
" point East of Little River (Nuŭ'vik). E. 80° - 4 mi.
" Whale Bluff — the highest point back of shelf E. 80° - 14 mi.

From Nuŭ'vik point - to Little Whale Bluff. E. 80 - 5 mi.

June 8. (Sat.) Cloudy. Light NE wind. Sunshine after 9th p.m. A raw, chilly day, but not freezing. Young ice forming after 7th p.m. Reached camp of Iluvinik, Komanna and Ukok, about 3 mi. West of Whale Bluff at 1th a.m. They were not sealing with sled and kayak, and returned in forenoon — Iluvinik 3 Seal, Komanna 2, and Ukok 1. Some Seals were lost by sinking. Ukok shot an Ugyuk (Bearded Seal) a day or two ago. No Geese killed today, and few flying. Saw skin of Golden Plover shot recently. Slept on top of sled until 8.30 a.m., and then went Gorse hunting with Ukok's boy, Ochokak. Ascended to top of bluffs (elev. 75-100 ft. high) by a little gully behind sloping to Westward and Southward; rolling with several small lakes, and one Lake 2-3 mi long x ½ mi wide (about 3 mi. inland. Land on hills mostly barren Clay, with scattering ground willows.

152.
June 8 (Sat.)

with many roots exposed. Little grass except in little slough pockets. Ground much cracked and hummocky. Further inland land flatter tundra and grass. On a broad grassy valley NE of large lake, saw about a dozen pair of Snow Geese, walking about and feeding; nearly all Geese were paired although occasionally there a four, or a small flock of 10-12 would pass over. They would let us approach within 200-300 yards then circle around perhaps alighting ¼ to ½ mile away. I shot four with shotgun and one with Mannlicher rifle and Schoolcraft shot four Schoolcraft shot one female Snow Goose near her nest, with four eggs. She came to me with the eggs soon after and I took the set for 25¢. on condition that he go back and show me the nest. I picked another Goose for the pair of female. Nest on a little dry grassy ridge between two deep ones on a flat valley intersected by a network of little shallow ditches, some dry and some with water; about ½ mile from large ice bound lake. Ground so flat with numerous patches of snow, and frozen except for about an inch on surface. Eggs fresh, one slightly incubated. Nest composed of bits of grass leaves and moss, with a little down from the Goose's breast. Goose's breast already partly denuded of feathers and down.

#802. ♂ Chen hyperborea. Wing - W - T. B. Ts. Tc.

♂ " " 725 - 450 - 155 - 60 - 82 - 78

#803 (paired) ♀ " " 745 - 450 - 153 - 60 - 82 - 84.

♀ " " 730 - 380 - 152 - 60 - 82 - 77

♀ " " 748 - 410 - 155 - 585 - 86 - 79

June 8. (Sat.) Snow Goose - bill and feet pink. About same - that of Geese which I have seen (Killed) this spring have long coverts blush, and least vestige (young) of knob. Sex evidently complete as no sign in ovary larger than a pea, and oviduct much distended.
*802.♂ - *803♀ Chicks by Herbarium

Saw two or three Redpoll near coast, two or three Rough-legged Hawks soaring; several Pectoral Sandpipers hovering in the air, sometimes poised motionless for minutes except for almost invisible whirring of wings; one Ruddy Turnstone, two or three flocks of Pacific Eiders (both ♂'s and females together); Semipalmated Sandpipers common; one pair of Arctic Terns (first of the season); Short-eared Owls, two Snowy Owls perched on little hummocks. (Saw several old Owl's nests). Large numbers of Pomarine Jaegers going East, and occasional Long-tailed (or Parasitic) Jaegers. Shot ♀ Long-tailed Jaeger. *804. Two or three small flocks of Black Brant seen flying over today. ♀ (Ovary small. S. hyperboreus) Eye about size of BB shot.

Started East alone at 8:05 p.m. and reached Kuō'ik creek (about 3 mi. E. of Whale Bluff at 11:25 p.m. Had considerable trouble on way - much water on ice, and crust would not bear up sled - many places; crossed several places where water would run inch or two higher than bottom of sled. The fresh Rough-legged Hawk's nest which I found last month was deserted tonight. Hawks seen further East. Snow Buntings and Longspurs around deserted igloo; a few Gulls and Jaegers going East.

June 9. (Sun.) Clear bright sunshine from 12 m.n. till forenoon, hazy after 12 m.n. and cloudy in evening. Made camp at Kuvlok, and turned in at 3.30 a.m. Two or three flocks of Snow Geese flew over about 3 p.m. Up at 9.30 a.m. two or three flocks of Snow Geese seen during day - one flock of ten flew west about 3 p.m. Ruins of many old igloos here along the beach at foot of bluffs, and edge of sandspit. - some foundations made of whales skulls, others of wood. The larger portion of most houses (above ground) have decayed or been chopped away for firewood. Found a human cranium (old) near beach, also pieces of old sled beside it; fragments of other human bones scattered some distance away.

Picked up enough wood scraps to last me for a few days. Skinned two Snow Geese; very fat - a tedious job cleaning the skins. Sun came out again about 1 p.m. Young ice about as thick as window glass formed on small ponds at midnight.

June 10. (Mon.) Clear, bright and warm until about noon. Light NE wind. Creek bed rapidly increased in volume until it was quite a stream. Saw first blue bottle fly buzzing around tent today. also small black flies on ground. Wind hauled to SW shortly afternoon, and a pretty thick fog soon whelped everything, coming from Eastward

June 10 (Mon.) Flock of 12-15 Snow Geese flew west. Two Little Brown Cranes circled about overhead ascending in spirals until out of sight to westward. Rough-legged Hawks and Fluffy Saw and Semipalmated Plover (Aegialites semipalmatus). Fog all evening, so that I could scarcely see 100 yards, and could not hunt. Many old house ruins along beach and on hills. Examined them but found nothing but old bones. Seal, bear, &c. Saw large red mouse in runway, and set four traps.

June 11 (Tues.) Cloudy at 6h a.m. Very slight fog. Light NE. wind. Skaonuit, Kowanna, and Ukkt. sleds arrived about 9h a.m. Yesterday Skaonuit shot thirteen Black Brant, Ukkt fourteen and five Snow Geese. Ockoket found one Snow Goose's nest with five eggs, and Kowanna one nest with two and one with four eggs. Eggs of one nest had started to incubate — eyes formed in embryo. Several flocks of Snow Geese were said to be going westward. Cloudy all day, very little hazy sunshine in evening.

One lady & gray mouse in traps in old igloo found on morning, but badly mutilated. Set traps again and in half an hour got 3. Igloo ruins honeycombed with mouse holes.

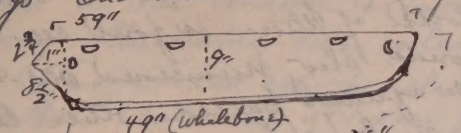
*805. ♂ Mouse (Gray). 140-30-19 mm.

Large flock of Snow Geese flies westward about noon. Several Seal seen on ice. Open leads of water within one mile of shore.

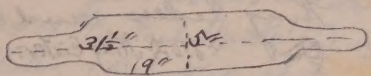
June 11. (Tues.). Started East, hunting, following foot of bluffs, on the ice, for about four miles. Examined Rough-legged Hawk's nest found May 16th. Old Hawk flew screaming overhead, but there was no eggs in the nest. Ascended first passable gully east of here (about 5 mi. from Smoking Hills. Land quite level, almost barren, sandy clay - a few ground willows, mosses and lichens, occasional tufts of grass. Nothing in way of birds except a few Longspurs and Snow flakes, and occasional Jaegers. Flat hummocky, grassy land about one mile from coast, and lake about ¾ mi diameter. Steep bluffs at Eastern end of Harrowby Bay visible (about 7-8 mi away). A range of high hills extends from Whale Cliff across the peninsula to Harrowby Bay, in a Easterly direction. Low flat land, grassy with numerous small ponds, four or five miles wide, between these hills and another range extending west from Smoking Hills.

Found old grave on edge of lake about ¾ mi from coast - parts of a whale-bone sled, several thin edge-worked slabs and two large driftwood logs. The only bones found were part of lower maxillary (adult), with two well-worn molars, also a few loose teeth. Picked up one curved knife iron blade, ivory (?) handle, copper-rivited with blue bead set in handle, one short leaf shaped knife, one blue bead, several smaller bone implements, bone chisel, and several

June 11 small wooden vessels, apparently children's
(Tues.) toys. One sled runner complete.



Crow-bars (4 in No)



Several old house ruins, or graves, on top of bluff, at head of gully about 300 yds from coast, 1 mi. E. of Camp. Many whale-ribs and jaws stuck into the ground. Charred bones, seal, birds, etc. Picked up some fragments of bone implements, and one good quality spear head here, by scratching around in a miscellaneous debris heap.

Jaegers were very abundant all over the flat land, sitting quietly on little hummocks or cruising around — mostly Pomarine Jaegers, but a good many Long-tailed Jaegers, and possibly some Parasitic Jaegers. Saw only two black (dark phase) Pomarine Jaegers, and probably two hundred white ones. The dark Long-tailed Jaegers are more frequent.

A little Brown Crane kept walking around a clump of little hummocks and croaked dismally when I approached. Got within about 150 yds. when it flew away. No nest found.

Several Snowy Owls seen. Rock Ptarmigan fairly numerous, usually in pairs, the females crouching pretty close. Males only occasionally seen to mount up into the air and descend with a croak.

June 11. (Tues.) A few pairs of King Eiders and occasional small flocks of three or four seen in small ponds; also numerous Old-Squaws. Some Old-squaws paired other large flocks of males only. Shot two male King Eiders and one male Old-squaw. ♂ #8103 King Eider. #11 ♂ Old-squaw.

On low, flat wet land, about half way between Franklin Bay and Harrowby Bay I saw several large flocks of Snow Geese - from ten to twenty-five or even fifty in a flock - from 250 to 300 scattered over territory about a mile long. As I came near one flock flew over and I shot one ♂. One flock after another got up and circled around, uttering a high falsetto "Kank". A flock of about fifteen came over and I dropped two at first shot, winged. The wounded birds walking on the ground brought the others back and I dropped two more - three males and one female. The other Geese flew about half a mile further east, and alighted in a low marshy pond-flat. I tramped over the whole flat, but found no signs of nests. Three or four pair of Black Brant (B. nigricans) on the flat, and I dropped one at a long shot chance - 75 yds. by count.

The female Snow Geese had belly bare of feathers and down, and set of eggs had evidently been deposited very recently - no large eggs in ovary and oviduct much

June 11 (Tues.) distended with large blood-vessels. When evicdent in this condition is boiled, it seems very albuminous like boiled white of egg.

Two Foxes seen prowling about the gather near end of lake — one apparently pure white, the other piebald black and white. Several small flocks of Pintail Ducks (D. acuta) seen feeding on flats. (Ochotuk shot one ♂ near Little Whale Gulf Yesterday). A few Gulls (Glaucous?) around the lakes, and large numbers of Arctic Terns.

Pectoral Sandpipers common everywhere on low land — the ♂'s often fly along close to the ground, the breast distended and hanging down like a pouch, at the same time continuously uttering a booming "dt'hoo" "dt'hoo" note. Shot one ♂ Pectoral Sandpiper — the breast being in shadow, looked black and I took it for a Red-backed Sandpiper. #807. ♂ T. maculata

Semipalmated Sandpipers fairly common. About 10 p.m. while passing along high dry hillside, a ♂ Sandpiper flew up from my feet, fluttering along the ground uttering a plaintive peep. After some search found two eggs, in a little hollow in the ground, lined with a few gray dead willow leaves. Shot ♂ Sandpiper, and took nest and eggs — for breeding record. (16½) Set incomplete but I did not care to return by this trail. #806. ♂ P. dairdii

Northern Phalaropes seen swimming about in many small ponds, also occasional Red Phalaropes. Ochotuk brought me a pair of Red Phalaropes. #808.♂ 809 ♀ P. fulicarius

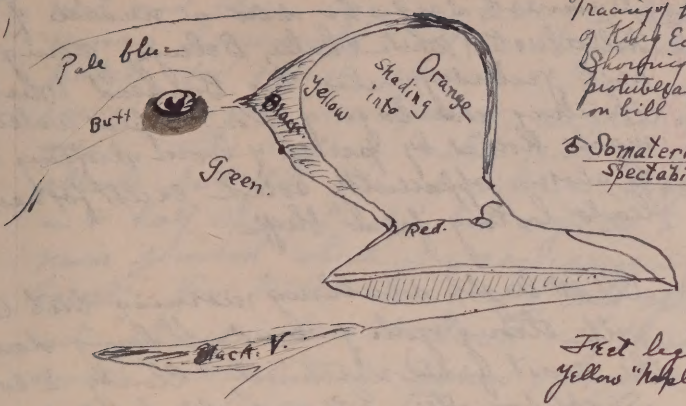
June 11 (Tues.) Several pairs of Golden Plovers seen on upland, but wild and wary. Snow Buntings fairly common along the rocky bluffs on the coast but it is dangerous to go under the bluffs now, as masses of the soft slate and shale are continually breaking off and falling down.

A few Marmots seen and burrows fairly common. Mouse runways abundant wherever there is tangled grass. I think the jaegers hunt mice a good deal. They quarter the ground like Hawks, and occasionally pounce down. I saw one pounce down and repeatedly strike something with its beak, and then swallow it. Short-eared Owls seem hawking in morning. Called one up, at least 250 yds. away, by imitating squeaking of mouse. He came within 50 yds. They will almost invariably come from a distance to the faintest squeak, if the person squeaking remains motionless.

	L.	W.	T.	B.	Ts.	Tcl.	
♂ Snow Goose	748	410	147	57	90	84	jur. bluish.
♂ " "	735	405	154	58	80	82	
♂ " "	714	403	150	57	82	85	jv. bl.
♂ " "	700	409	145	57	81	83	" "
♂ Black Brant	625	346	111	39	65	70	
♂ King Eider	575	255	99	34	48	76	

June 12 (Tues.) Bright sunshine in morning. Warm. Light NE wind. Cloudy afternoon. Men went out on the ice sealing this morning. Large flock (about 30) Snow Geese passed over about 9 or 9.30 a.m. going West. Hammitt killed one Seal today. Schotatt shot three Red-throated Loons and some female Eiders in ponds back of the bluff.

June 12
(Wed.)



Tracing of head of Kidney Eider ♂ showing fleshy protuberance on bill

♂ Somateria spectabilis

Feet light yellow "Naples Yellow"

Spent day skinning birds shot yesterday - all very fat - Eider, Sandpipers, and Phalaropes. The ♂ Pectoral Sandpiper's skin was very hard to clean, on neck and breast. Great part of the scalling of the neck is due to a stiff, flabby mass of fat and water, too tough to be scraped off readily without tearing the skin.

Wind hauled to West in evening after calm all afternoon, and blew quite a gale. Weather very raw and chilly at midnight - seeming much colder than last night, although thin ice formed on ponds last night.

The high protuberance on bill of ♂ King Eider is composed of a rather tough fatty fibrous tissue - something like Beaver's tail, Bear's paw, or Monkey's nose - covered with tough smooth skin, orange colored in front, shading into light yellow posteriorly. Base of bill from nostril forward dull red, slightly tinged with orange.

June 12 (Wed.) Bowhead with Beluga

Klaviark said he saw a number of killalook (White Whales, Beluga) going west yesterday, also two Bowhead Whales spouting near edge of floe. Open water much blocked by pieces of loose drifting ice off shore, apparently solid, except for narrow leads looking from bluffs.

June 13. (Thurs.) Clear, bright sunshiny morning but cold with strong gale of wind blowing down the coast from northwest. Cloudy in evening. Slight fog after 6 p.m. Light fall of snow for a little while about 10 p.m. Crust of ice forming on all small ponds after 8 p.m. Natives started east along coast in afternoon to cut blubber from whale's carcass and to look for eggs. I went up Knoark creek gully and about 5 o'clock up, found an apparently new American Rough-legged Hawks nest, but no eggs. About 200 yds. further on a dark Roughleg dashed out from a little gully and from I saw the nest. At about 100 yds. the Hawk (a light phase, tail white) flew off nest and both circled overhead, screaming "kil-rrrr", much like Redtailed Hawk. Nest on summit of angular point of crumbly flaky shale, between two wash-down gullies; made of sticks and twigs and lined with dry grasses and a few feathers; well made. Five eggs, incubation about one week. Set. No. 164/5

Brought eggs back to camp before starting out again. Coming through wet, mossy hummocky angle of creek between high bluffs, flushed an American Pipit (Anthus pensilvanicus) from

June 13 (Thurs

nest and three eggs in side of a little mossy hummock. Left same undisturbed, for future reference. Near camp, saw a single Tree Sparrow, the first one seen in this region — miles from any shrub but flat ground willows. Slipped in a half charge #12 shot, but neglected to remove gunrod which I was carrying in barrel. Gun kicked terrifically, rod splintered into slivers where it struck rig bank under moss, and Sparrow vanished.

Ascended hills again to SE. Kuroff Creek is short, several branches meet about 1 mi. about straight in from coast. A little to Eastward of this is a low, flat marshy valley, about a mile in diameter, numerous large and small ponds draining out of Eastern end into a fairly large creek which runs Eastward for about 3 mi, then bends to N or S. and runs into Harlowby Bay. Followed left bank of this creek for about two miles on the west, without finding a place where I could ford. Saw several pairs of Rock Ptarmigan and a few lone males on hills and on flats, still white, females full summer plumage. On marshy flat, saw four or five pairs of Black Brant, one pair Snowy Owls, numerous Old-squaws, a few pairs of King Eiders, two or three pairs Glaucous Gulls, large numbers of Sabine Gulls and Arctic Terns, numerous Red Phalaropes, one pair Golden Plover, a few Pectoral Sandpipers, and a number of Long-tailed and Pomarine Jaegers, Short-eared Owl, Longspurs.

June 13 (Thurs.). The Black Brant were separated waiting about in pairs, feeding and keeping a watchful eye for danger. Waded through a maze of small islands and peninsulas, half submerged chains and finally found one Brants nest, a single egg, covered with grass and a few bits of down; egg fresh (163/1)

Red Phalaropes abundant, but no Northern Phalaropes seen. They were very tame, often allowing approach within ten feet as they were paddling & wading about in the water, continually on the move. Often one would rise up from the water with a buzzing "prrr" note, and fly a short distance. Saw one ♂ fussing with two ♀'s apparently equally attentive to both.

Sabine Gulls in large numbers, hovering about with Arctic Terns, or walking about on wet tundra feeding. When I shot one, others hovered overhead, occasionally drooping down to see what was the matter. All were very suspicious of danger at all times. Shot three ♂♂♀ 84 815-816. Rosy tint on breast when freshly killed.

Jaegers perched on little hummocks everywhere, but difficult to approach. Saw only one black jaeger (S. pomarinus), and followed it for a long time. I could get nearly within gunshot, when it would start to walk off, go a few paces, and then fly 30-40 yds. Jaegers not very active tonight, mostly sleeping on little hummocks. If a jaeger comes near roosting Terns, a few will often fiercely

June 13 (Thurs.) attack him, darting down from above causing the jaeger to beat a hasty retreat. Shot one Pomarine jaeger (light phase) flying over. ✕ 818. ♀ Stercorarius pomarinus. Saw a pair of Golden Plover on the flats, and shot one. The right foot had been lost previously and the stump healed, about ¼ in. of bleached white tarsal bone being exposed at end. ✕ 817. ♂ Charadrius dominicus.

One large flock of King Eiders, about evenly divided as to sex, seen going East.

Coming back over the high dry hills near the coast, I flushed a ~~Baird's~~ ~~pectoral~~ Sandpiper from under my feet, fluttering along with spread wings and (a plaintive) "pee-eep". Nest a slight hollow in ground, lined with a few bits of lichens and dead willow leaves. Three fresh eggs. 162/N3.

June 14 (Fri.) Clear morning. Warmer. Light NE wind. Saw one Tree Sparrow and a pair of Snow Buntings near camp. Natives came back about noon with load of Whale's flukes and about a dozen Snow Geese and some Eiders. They had gone inland last night at little creek called Shiuwak, but did not see many Ducks and Geese. Eskokatt found three nests of Snow Geese, but all were started in incubation (Eaten however). Some flocks of Geese were seen, but they thought not breeding there. Large flock (about 25) Snow Geese flew West over camp about 2.00 p.m.

June 14 (Fri.). Bright sunshine all day, and light NE wind. Young ice on pond about 4 in thick at midnight. Another fleet of Snow Geese flew westward in afternoon. An occasional Gull seen passing. Spent day preparing specimens, &c.

June 15 (Sat.). Bright sunshine at 2.00 a.m. Light NE wind. Cloudy after 9.00 a.m. Flock of about 20 Snow Geese flew west about 10.00 a.m. Finished skins, blowing eggs, &c. Loaded shells. Natives out on ice sealing. Slavinsk got five Seals, others none. Tree Sparrows around camp all the time. Misty drizzling rain started about 7.00 p.m. and continued all morning. Chilly, and slight fog at midnight, but not freezing. Kondamna brought home part of a small baked earthen pot (clay?) mixed with gravel, found on old grave (or house ruin) on top of bluff. (80)

June 16. (Sun.). Light NW wind. Dense fog all forenoon so that one could scarcely see one hundred yards. Continuous misty drizzle all forenoon and pretty heavy rain for some time in afternoon. Tent leaked in many places. Rain ceased about 7.00 p.m. Fog lifted about 8.00 p.m. and sun came out brightly about 10.00 p.m. Wind hauled around to SW in evening. Saw two or three Gulls and a Jaeger flying over. Tree Sparrow and a pair of Snow Buntings around camp in afternoon.

June 16 (Sun). About 10.30 p.m. I went out to look at nest of American Pipit (Anthus pensilvanicus) found June 13th. ♀ Bird flew from nest when I was about ten feet away, skimming along the surface of ground, dodged behind a little mossy, grassy ridge about 30 yds. away, and ran rapidly away behind this ridge in a series of little sprints, barely stopping. Shot bird when it made first object pause. Took the five eggs incubation fresh. Set 165/NJ. Found a Gray House in one of my traps which had been pawed and shagged around by dogs.

Being unable to go out collecting today, on account of dense fog and rain, I improved the time by setting up stove and baking enough bread to last me a week as well as drying out birdskins. Made some egg boxes, patched out of various scraps, wired together in lieu of nails.

#819. ♀ Anthus rubescens. Ovaries small, set completed.

June 17 (Mon.). Clear bright sunshine at 5.30 a.m. Warm. Brisk SW wind. Flock of 10-12 Snow Geese flew west about 6.30 a.m. Replaced Eggs in Pipit's nest collected last night and photographed same.

(447) #. ♀ Pipit's nest. 16-1/25 - Brt. sun (very slight haze) 8.00 a.m. Portrait lens at Brt.

(448) #10. do. 11-1/50.

Found on dissection of ♀ Pipit that set was completed; ovaries small.

Photo. #1. (449) Whale Bluff, from East side, about 3 mi. 8-1/50 - Bull sunshine. 9.00 a.m.

June 17. (Mon.)

Photo.

(450) #2. Cliffs, about one mile west of last (most) western most Smoking Hills, Franklin Bay. showing undulating, black and yellow shale. 22- 1/25 B.S. (air shake). 4:30 p.m.

(451) #3 Smoking Mountains. Franklin Bay, about 15 mi. N.W. Horton River, and 12 mi SE. of Whale Bluff (near Fitton Point) From West 11- 1/25 - B.S. 5:30 p.m.

(452) #4 Smoking Cliffs. 16- 1/50 - B.S. 6:10 p.m.

(453) #5. do. 11 - 1/25. " "

(454) #6- do. 8 - 1/50 - B.S. 6:20.

(455) #7. Nest of Rock Ptarmigan on tundra 168/18. near Smoking Hills 16 - 3 sec. Bull sun. 11:10 p.m.

(456) #8. do. (on high land). 45 - 5 sec. DS. 11:10 p.m.

(457) #9. do (on high land). 16 - 1/25 - DS. 3:00 a.m. (June 18th)

(458) #10. do. 169/19.

Ilavinirk, Kowanna and Ulick packed up today to start back to little Whale Bluff, about seven miles west. They have given this up as a bad egging ground, although last year Alingatt got a good many Snow Goose and Black Brant eggs near here (about 5 mi. E.) They advised me to move too, as they said ice was getting bad, wide cracks and holes, and I would have difficulty alone. As I wanted to make one more scout to eastward I hired Ulick's boy Ochokak for $2.00 to stay with me, and keep my dogs from running away when others moved.

June 17 (Mon). Ikaovuk took my large chest (now nearly full of bird skins) and some other stuff along. Killed mouse under cache.

#826. ♂ mouse (Arvicola?) 154-35-20.

Started east on the ice at 3:20 p.m. Many wide cracks running in all directions near Kuvlotk, but after getting a mile or two east ice much better, few cracks, good for sled travel for several miles west of Smoking mountains and probably further East. Walked about ten miles southeast along coast from Kuvlotk, to first, round dessert smoking cliffs. Great clouds of white smoke coming out from depressions behind sea wall of variegated colors of "slag" - red, browns, yellows, blacks. where cliffs had burned and caved down forming an irregular bench about 35-40 ft above sea level, about ½ mile long, in front of steep bluffs (200 ft) behind. This is the only continuous break in cliff for 25-30 miles. No places which could be ascended to top of bluffs for several miles, and I had to go back some distance to a little gully (where Alivak camped last year) east of creek called Shiuwatt. Gully about ½ mi. long very steep, with crumbly, flaky shale walls, very sticky mud.

About one mile west of Fitton Point (near top of cliffs about 150 ft. above sea) strata very undulating, thin strata of pale yellow alternating with black.

Compass bearings (on coast)
P.E. Kuvlotk, from point E. of Whale Bluff E. 80° - 2 mi
Smoking mts. (Fitton Point ½) to P.E. of Kuvlotk E. 28° 10 mi

170.

June 17 (Mon.) From high land at head of gully where I ascended, several prominent land marks are visible

To most western Smoking hills of high land point behind E. 80°- 2 mi.

To Ikpisuggyuk (Maitland Point) south W. Corner of Harroby Bay). E. 190°.

Tuktaiat, the next long point west of Ikpisuggyuk is also plainly visible, and the whole south side of Harroby Bay, i.e. the hills south of Bay.

To Whale Bluff. E. 210, 12-13 miles, Country is quite flat in triangular area between ridge running from Whale Bluff to Harroby Bay, and ridge from Smoking hills to E. end Harroby Bay. (The short rows of steep, isolated bluffs on SE Corner of Harroby Bay are the same strata of finely divided layers of shale as exposed in gullies near Smoking hills. Land slopes gradually from bluff on Franklin Bay down to Harroby Bay, wet grassy tundra some low rolling hills, many small lakes near Harroby Bay.

Numbers of King Eiders in little ponds, usually three or four together, two or three ♂ with each ♀, quite tame, paddling about, uttering a low crooning note, when scrunching the peculiarly developed feathers of wings, which stick up like two little sharp horns, a little abaft of middle of body. Old-squaw Ducks in almost every pond. Found one nest containing two eggs on a tiny island in small lake- apparently an old Gulls or goose nest, a grassy ring of tuft, lined with

June 17. (Mon) few dry grasses. Eggs covered with grass, but very little down deposited as yet.

Coming across the tundra a little west of Smoking Mountains flushed a Lapland Longspur from nest and five eggs, placed in side of a little tussock. Set 166/15. incubation begun. Shot ♀ #823 Calcarius lapponicus. She fluttered along the ground for about 2 yds. then hopped a little way. The ♂ soon came hopping around and I shot him also. #822 ♂ Calcarius lapponicus.

American Rough-legged Hawks nest on summit of cliff overlooking sea, near Smoking Mts. Hawk sat on bluff close by, screaming as I passed by.

Several pairs of Black Brant in small lakes near eastern End of Harrowby Bay. Found one nest on little island, a single egg, covered with grass very little down on nest. The Brant kept stalking around out of gunshot, occasionally uttering a nasal "quank" cry. Red Phalaropes abundant everywhere, a few northern Phalaropes. Pectoral Sandpipers fairly common. Sabine Gulls abundant usually in company with Arctic Terns, they swim in the water a good deal, picking up food from surface of water in manner of Phalaropes.

A pair of Glaucous Gulls on lake near Harrowby Bay - 3 miles from Smoking Mts. Found nest on little island, three eggs, incubation begun. Set 167/3. Several broken shells of Snowy Owl eggs on ground near Gulls' nest. Gulls flew screaming overhead, occasionally swooping down. Wounded one but it got away, and both left out of gunshot afterwards.

June 17. (Mon.). Saw Black-throated and Red-throated Loons. No Yellow-billed Loons have been seen here. A pair of Golden Plovers apparently had nest or day's upland bird I could not find it. Saw a Little Brown Crane near Harrowby Bay, on flat land. It kept screaming, but as it was on opposite side of unfordable creek, I could not investigate. Jaegers very numerous on flat land, perched on almost every hummock. Two or three single Jaegers flew around me screaming, as if they had nests in the vicinity.

Shot ♂ 20 Pomarine Jaeger. Ovary largest about ½ inch in diameter. Although not measuring much larger than Pomarine Jaeger is nearly twice as heavy a bird as Long-tailed or Parasitic Jaegers.

Shot ♂ 21 ♀ Long-tailed Jaeger. Under wing- and tail coverts barred with white. Ovaries small. Saw a flock of 30 or 40 Jaegers (mostly Long-tailed) and a few Pomarine Jaegers (one black one), roosting in a bunch on top of a barren hill 5 miles 12 and 1 am.

While crossing wet, grassy, hummocky tundra, I walked up towards a ♂ Rock Ptarmigan (pure white, except tail). He allowed me to come within a few yards when a ♀ fluttered out from my feet. Nest and eight eggs in little hollow, a few grasses and feathers. Set 16/8 incubation. The pair of Ptarmigan kept close together, about 30 yds away and

June 17 (Mon) I shot ♀. * 824. ♀ L. rufescens. Wounded ♂ slightly and he flew away. I tried to approach him, but could not get within one hundred yards. Took two photographs of nest. Very warm all day. Wind S.S.W. Ice melting fast. Saw flies, Dumblebees and small moths. 1st small purple flowers blooming.

June 18. (Tues.) Dull sunshine all night. Calm during middle of night. Cold. Young ice forming on ponds. Sticky breeze sprung up from S.W. about 2nd a.m. In marshy flat, with small ponds at head of large creek rising back of Knowlton about 1 mile (draining into Harrowby Bay), I saw several pairs of Black Brant. One ♀ was sitting on nest on little island ½ a mile from waking ground near head of creek. Neckband bill thrust out in a line at about 45° L. motionless. One fresh egg. nest a thick mass of down. One more Brant's nest, with single egg taken; very little down. Another ♀ Brant seen sitting on nest on little island, but water was too deep for me to reach it.

Flushed ♀ Rock Ptarmigan from near nest and nine eggs on high barren hillside. Ground much cracked with only a few mosses and lichens and a few spears grasses here and there. The ♀ Ptarmigan ran rapidly away along the ground, followed by ♂. Shot ♀ at 825 ♂ flew about 300 yds. away and defied approach. Photographed nest twice. ♂ came nearer after some time, but not within gunshot. After I had gone some

June 18 (Tues.) distance. I saw him fly back to the nest. Set 169 incubation, nearly all fresh some just begun. Nest merely a few leaves and lichens.

Saw ♀ Longspur carrying a bill full of dead grasses.

Several large flocks, about two hundred altogether, of Snow Geese sleeping and feeding, on hillside, about 3-4 km. S.E. from Kusvott. When alarmed they flew to westward. On flat land near Smoking Hills the only Snow Geese seen were three flying over, going East. Westward toward Kusvott, I saw two or feeding on high tundra hill. I approached, and Geese started to walk and run away. They flew when I was about 100 yds away.

Flushed a ♀ Red Phalarope which was sitting on an empty nest on wet tundra. Reached camp at 3:30 a.m. Found old whalebone snowknife on bed of Kusvott Creek.

Turned in at 5:30 a.m. and got up a little after 9:00 a.m. Low tide. Put sled out on ice, and waded out packing stuff from shore to ice. Started West at 2:05 p.m. Travelling pretty good until a mile or two west of Whale Bluff. Ice pretty dry, and cracks not wide. Some holes a foot or more deep where mud had melted down into the ice. Saw Rough-Legged Hawk's nest on top of cliff near Whale Bluff. Reached camp at Little Whale Bluff about

June 18 (Tues.) 5:30 p.m. Boat going for about two miles East of here – soft snow and much water still on the ice. Ikuniitt et al. took several hours to come here yesterday and had to cache some of their stuff and go back for it today.

"Jawbone" and Aiasuaitt came here two or three days ago Egging. Yesterday they got 26 eggs mostly Black Brantt but a few Snow Geese.

Everybody started out about 10 p.m. to a shallow lake filled with small islands called Immaerhitt (head of creek flowing out at Nuiawik (Little River) East of Cape Bathurst – said to be great nesting place for Black Brant. Ikuk says Immaerhitt had considerable water in early summer, and one has to use a kayak to get many eggs, but that later in the summer most of the water had flowed out of the lake.

Small flock of Snow geese circling around to westward about midnight. A Snow Bunting singing loudly. Skunk birds all night. Clear, calm, and pretty cold. Young ice forming in pools. Found blue snowknife in bed of creek at Kuvorok this a.m.

June 19. (Wed.) Clear morning. Light NE wind. Freezing until about 4 a.m., but after that it rapidly grew warmer. Very warm in forenoon, and bluebottles buzzing about tent. Lent Ikuk my shotgun last night, and this morning (slept from 5 am to 9 a.m.) he found 6 Black Brant and 1 Snow Goose in my tent

June 19 (Wed.) also two Black throated Loons hanging up outside.

Hannik brought me a set of six eggs of Snow Goose, found on high flat land with ditches and ridges near lake about 1½ miles back from coast. Set 170 6. incubation begun (eyes formed in two or three embryos some eggs nearly fresh. He found about twenty eggs of Black Brant. Others found a good many Black Brants' eggs, and 1 Omanmun the Snow Goose's nest with two eggs.

Ochotatt had killed eight Black Brant and one Snow Goose, a pair of Black throated Loons, a Red Phalarope and a Northern Phalarope. He found several nests of Black Brant and brought me a set of four with nest and ♀ parent. Set 17 N. also another nest with two eggs. and manifestly incubated a set of Northern Phalarope 1 7/8 ♀ with parent bird; fresh.

#827 ♂ ~~Black throated~~ Pacific Loon (Gavia pacifica).
#828 ♀ " " " Largest egg in ovary about as big as 10-gauge shotshell. Both birds very fat. Fairly strong N wind in evening. Hazy sun.

June 20 Thurs. Bright, clear morning. Young ice in pools in middle of night. Stiff N wind in morning. Jaeborg and Andreasen started for Barrow and Hannik and Ochotatt left a load of stuff ahead.

My handwriting looks pretty jagged when I was writing above. This morning too sleepy to steer pen straight.

June 20 (Thurs.) only seven or eight hours sleep since Sunday. Turned in about 7 p.m. and slept until 7:30 p.m. Bright sunshine and strong NE wind in evening. Chilly

Measured 5 Snow Geese killed 19th inst. L. W. T. B. T. Th.
768 - 402 - 130 - 60 - 89 - 84

June 21. (Fri.) Bright sunshine all night. Fairly strong NE wind. Ice forming until about 2 a.m. Hazy bright sunshine in forenoon, strong chilly NE wind. Clear p.m. warm; wind subdeclate. Went up on bluff just back of camp with Hammitt and Komanna, then SE about 2 mi. to a large lake known as Kreklitmaluk. This lake has a long low sandbar island and just before I waded out to it a few days ago and got many Black Brants' eggs. Just after leaving coast a flock of Black Brant flew over and Hammitt dropped one. Eight or ten pairs of Black Brant walking about on sandbar island but water was too deep on landward side, and ice too rotten to venture over on other side. Flock of about 15 Snow Geese flew over from eastward and alighted on hills to feed. Kreklitmaluk Lake is about 3-4 mi. W (true) from Whale Bluff and is 2-3 mi. in diameter.

Crossed low hummocky isthmus between this lake and a smaller one NW of it. Black Brant flying back and forth and I shot one E. of it and a King Eider. Flock of Snow Geese circled around lake. Hammitt dropped one. Numbers of Red Phalaropes flew on

June 21. (Fri.) few Northern Phalaropes, Sabine Gulls, a pair of Red-throated Loons, Semipalmated and Pectoral Sandpipers, a few Parasitic Jaegers, and a pair of Black-bellied Plovers. Crossed about a mile of low, hummocky barren land without seeing anything but a Fox & mouthful of his burrow. Saw what I thought was a Crane coming up on marshy flat to westward and went over, but found that mirage had deceived me - two Black Brant. Happened to stumble over the nest - on low, wet ground, a well-built nest - outside of fine grasses, lined with a large bunch of down, which completely covers the eggs. Five eggs, incubation slight. Set 17/15. Photographed (459) *1. Nest Black Brant 17/15. 8-1/10-B.S. 12M.

A series of small ponds and sloughs between ridges west of this. Saw several pair of Black Brant; one ♀ was sitting on the nest on a little round island about 60 ft. diameter, and top about a foot above water, top flat. Brant crouched close, with head and neck stretched out flat along the ground, until I came within about 30 yds. then flew away. Five eggs, incubation begun. Set. 17/15 N.F.

Found two nests of Red Phalarope within 30 yds of each other, flushing 8 from best in both cases. Both nests on little narrow ridges from 6 in. to a foot high forming a

June 11 (Fri.) network was a low marsh or pond. Shot one ♂; he fluttered away from nest, then walked unconcernedly about, some 30 yds. away. * 830. ♂ Cryhophilus fulicarius

Set 177/N4 Red Phalaropes incubation fresh

Set 178/N4 " " " "

While crossing some rather dry, upland tundra, with a few wet spots here and there, a pair of Long-tailed Jaegers began to scream when I approached a certain spot. "Here" (very shrill), and sometimes swooping down within 4-5 ft of my head. After some search I saw two eggs, lying in a little hollow on top of a broad, flat-topped hummock, covered with very short lichen-moss(?). No nest but a very few little scraps of leaves &c. Shot both parents birds - both white phase.

Set 175/N2. incubation fresh

* 831. ♂ Stercorarius longicaudus.
* 832 ♀ " "

Long-tailed
Photographed nest. * 2. Red Jaeger. 175/N2. 32-5/8 B.S. 2 p.m. 450 @ 6 ft.

Hummitt reached camp before I did. He had found about twenty eggs of Black Brant and one nest of Snow Goose - three eggs, taking nest, and shooting ♀ Goose on hummocky flat land, with little ridge between through channels.

Set. 176/N3. incubation slight, heads of embryos formed. Measured ♀ Goose, white adult. L. W. H. B.
To 88. No. 88 mm. 714 437 156 60

June 21. (Fri.) Nest composed of a mass of bits of moss, grass, mixed with a sparse sprinkling of feathers and down. This is probably a second set, from small number of eggs and small quantity of down.

Komanna shot a large ♂ Ugyuk nearly the length of his sled - about 3/4 out from shore. Photographed same.

(461) #3. Skinning Ugyuk on ice. 8-1/100-BS 4pm

(462) #4. do 8-1/100-B.S. 4pm

Everybody moved off in evening (7:00 pm) from sleds. Considerable water on the ice in places - no very wide cracks, but numerous channels melted into the surface, a foot or two deep, and many broad shallow pools where mud has melted down into the ice. Too much water along shore for anybody to go ashore at Little River Nuiakuk, and we went about 1½ miles further west to next large gully - Tuktaliak where a lagoon runs 2-3 miles inland. Ilavinirk and Ukpik went on to Bullen Island, and Komanna and I ran our sleds ashore and camped - about five miles east of Cape Bathurst. Clear and calm at midnight. Some driftwood, mostly twigs, around edge of lagoon. Most of wood from here to Horton River has been picked up. Capt. Wolki told me that formerly there was plenty of wood on beach

June 21 (Fri) around Whale Bluff, and in full of boats from picked up sixteen whaleboat loads of wood and brought them to Baillie Island. Now there can scarcely be found enough to build a summer Cahup-fee

June 22 (Sat) Clear and calm during early morning hours. Freezing a little at 1:00 a.m. Walked over to Nuiaviik to get a large fossil horn picked up on the land by Thalingak a mile or two back from there last winter (about 8 miles E of Cape Bathurst) - on flat land. Part of skull and one horn core, curved, like long-horn steer, with horn shell loose, basal half missing, horny shell much weathered and split. Length of horn (around outside of curve 25½". Chord of curve (inside) 15½". Circumference of base (core) 13½". Circ. of middle portion (including shell) 18½". *834 RMA

Ground very dry and barren (about half bare, yellowish sandy clay spots with no vegetation, much cracked little bit green - a few Longspurs, and Semipalmated Sandpiper

*(between Nuiaviik and Tuktpaluroit)

A pair of Golden Plovers evidently had nest on top of bluff near Tuktpaluroit but I did not have time to watch them long

Turned in about 3:00 a.m. and got up 10:00 a.m.

At 3:50 p.m. started out for Immaerrnat with Esse Kuptana Komanna to look for eggs. Followed up west side of Tuktpaluroit gully for about 3 mi.

June 22 (Sat). looking for a place to cross. Gully (or lagoon) very crooked, from 50–80 yds. wide, with deep water, banks steep, from 30–50 ft. high. At head of lagoon, three little creeks unite. Followed up one running from SE, about 1 mile.

Found a Long-tailed Jaeger's nest on upland, wet, grassy mossy spot. Dogs running ahead, alarmed Jaegers, which swooped down, nearly striking dogs' head. Dog jumped up into air trying to catch the Jaeger, and we came up before eggs were broken — two eggs. Left them & came back later as they were near camp. K found Longspur's nest in side of a little tussock.

Several Rock Ptarmigan seen, some males appear to be all white still although usually stained with dirt and clay, others have a few brown feathers on wings and a few on back. Females seldom seen. Males occasionally spring up into the air and soar, uttering a rattling, guttural 'kurr-r-r'.

Three Little Brown Cranes on hill near head of Gully. They flew about 150 yds. from us and alighted again on other side of gully.

Land very flat for two or three miles SE of head of gully, grassy, with no ponds of any size. No birds except Longspurs, and occasional Pomarine or Long-tailed Jaegers perched on little hummocks, also a few Pectoral Sandpipers.

Struck a small, narrow, deep lake about a mile west of Immaerniit. A small island in

June 22. (Sat.) middle of lake apparently had a Black Brant's nest, and two Black Brant were on the shore, and circled around us alighting on other end of lake. A few King Eiders and Old-squaws also on lake.

A slight fog came up about 6:30 p.m. and hung on with varying density, until after midnight. Light NW wind, but rather chilly — young ice forming on ponds before midnight.

The place called Immaërnitt, is a long marshy flat valley between low hills. The western arm is about a mile long (NW-SE), ending in a little creek which runs about 2 miles down to Nuiavit (about 6 mi. E. of Cape Bathurst. Western arm consists of a long narrow lake, or a series of connected ponds, with many small low islands — deep channels between. The Eastern branch (N and S, about) is 3 or 4 mi. long, and from 1 to ½ mi. wide, a shallow, grass-grown marsh or lake with occasional little mossy hummocks and islands.

In the western arm, about a dozen pairs of Black Brant were nesting, most of the nests being on little islands, and the water too deep for us to wade out with our long (half-hip) boots. Got three nests — two, three and four eggs respectively, and Komanna got some. Several Brant seen sitting on nests, crouching low, with neck stretched out along ground. After a little shooting, the Brant kept flying around in little bunches, occasionally alighting out of gun range.

June 22 (Sat.). Brant nests here were merely little hollows in the ground or moss with a large cohesive mass of gray down from female's breast. All female Brant killed now have belly and posterior portion of breast bare.

One set preserved here. Set 191/N4 3 nearly hatched.

Flushed a ♀ Old squaw Duck and shot her from nest and three fresh eggs 181/N3 on a little chain of connected islands fringing shore of lake. Nest composed of a few dead grasses and bits of black down, lining a little hollow. Female remained on nest until I was about 8 ft. from her, then flew heavily away.

Saw a Labrie Gull sitting on her two eggs on a wet mossy little peninsula. No nest but a little hollow in the wet moss. Another nest near by consisted of a few wet grasses (or sedge stems), contained one egg. Several pairs of Gulls around, screaming and swooping down in manner of Terns. Cry is a rather shrill, rattling shriek. Set 186/2 188/1 fresh.

Found two nests of Arctic Tern [Sterna paradisaea] near the Labrie Gulls, one had two eggs, fresh. Set 187/2. A pair of Glaucous Gulls appeared to have a nest on one of the little islands, but water was too deep to get out.

Went up on the bank about 12 ft. above lake level at angle of lake. Black Brant flying over in scattered bunches. Dropped to pair at one shot, and Komanna got two others. Large numbers of Brant seen out in the

June 22 Sat. marsh. Cached our birds and eggs on the point and waded out. The marsh from a side view appears to be a grassy flat with occasional patches of open water but the grass sticks up out of water about knee deep, with occasional deeper holes, and here and there a little turf hummock or a semi-solid mossy peat ridge. Found a Black Crake's nest three eggs - on wet ground near big hummock, ♀ on nest. little down in nest. A nest on hummock had been recently robbed. The ♀ Crake allowed me to come within 25 yds. before flying. Komanna found another nest about 100 yds from this one, and I found a Black-throated Loon's nest, with one egg, on a semi-floating mass of vegetation, in a little open pool - pair of Loons swimming in water just outside. Set. 183

Next Crake's nest better built than most of the nests - a large ring of fine dry grass outside, internal lined with a mass of down, nest on a little mossy hummock, surrounded by shoal water marshland. Four eggs, slightly incubated. Set 182 N5. ♀ on nest, shot June 8 38.

Set. 190 N5. Slightly incubated. Nest composed of down with a little grass and a few bunches of moss on outside. ♀ on nest.

192 N4 - slightly incubated. Nest on wet mossy hummock, very little above level of water. ♀ on nest.

June 22nd (Sat.). Set 193 N.Y. Black Brant; slightly incubated. Nest in little mossy hummock in large marsh. ♀ on nest.

Shot a ♀ Brant on nest, but shot broke one of the five eggs. Shot one ♂ 837 flying around another nest in company with ♀. Altogether I shot six Black Brant and Komanna seven. Brant are getting lean already, although they still carry a little fat. One female skinned was much fatter than the male. Took fifty-nine Brant's eggs, 5/5, 6/4, 2/3, 2/2, and Komanna about forty. Some eggs were broken out of various sets in packing over rough ground, and only five perfect sets saved. Early in the morning most of the Brant were flying about at random, but towards midnight it was pretty cold, and young ice forming on ponds and the ♀ Brant sat pretty closely on their nests. The grass was not quite long enough to hide the bird, and looking out over the marsh with the field glasses, a little black spot in the grass would invariably develop into a ♀ Brant sitting on her nest. The Brant usually stretch the head and neck out along the ground and remain perfectly motionless, seldom allowing a

June 29 (Sat) person to approach nearer than 30 yards. It is usually impossible to approach noiselessly as one must wade in water. Sometimes, looking from a distance with glasses I have seen Brant sitting on nest with head and neck upright, but I think this is only when she believes herself unobserved. When the ♀ is sitting on the nest the ♂ usually keeps pretty close to the nest.

Scarcely any Brant's eggs were found which were absolutely fresh — incubation being just begun in most cases — a blobby placenta forming and yolk milky. A few sets had embryo forming with partially developed head and eyes.

Found an Arctic Tern's nest on a little island within three feet of a Black Brant's nest. Set 1 8/2. Eider Ducks and Brant often nest very close to the Terns, and advantageously, as the eggs are usually hatched (unless robbed by man). The pugnacious little Terns effectually keep off any predatory Gulls or Jaegers which are always on the lookout for eggs of other birds. Some other birds will attack the Jaegers, which are really cowardly birds when heartily opposed. I have on two or three occasions seen a Rock Ptarmigan fly fiercely at a Jaeger which came too near his nesting place, and put the Jaeger to ignominious flight.

Took two more nests of Sabine Gull. 1 & 2 fresh. 1/2 nest composed of a few grasses lining a little

June 22 (Sat.) hollow in mossy bank near water's edge. Several Sabine gulls in immediate vicinity, and several fresh nests just ready for eggs.

Flushed ♂ Red Phalarope from nest containing four fresh eggs; nest a little hollow in low wet ground in center of a bunch of grass. Shot ♂. #836. Set 174 N.

Flushed ♂ Northern Phalarope from nest and four eggs in similar situation to above. Set 4/4. inc. fresh. ♂ fluttered away for a few yards, then walked about, apparently unconcerned.

Out in the middle of the large marsh on a low, flat, wet island scarcely three inches above the water's level. I saw a bright bay red lemming mouse near a Gull's nest. I chased it all around the little island, getting occasional glimpses through the tops of grass grown runways, but mouse finally escaped.

Three Gulls flew over the lake, the first I have seen this season. Kowanna called them, and they circled around. He fired but missed. A few Pectoral and Semipalmated Sandpipers seen on the flats.

Got my long boots full of ice water while wading across lake. Tiptoed on icy bottom with water about 8 in. above my knees for nearly ½ mi. without depth increasing or diminishing an inch. One consolation in wading in these Arctic marshes is that there is no danger of getting mired in bottomless mud or quicksand, and

June 22 (Sat). there are few holes either, as the bottom is frozen solid, with from one to two inches of mud on top. Came up on the bank about 1:30 a.m. wet, tired and hungry. No wood, but by picking up tiny scraps of ground willows (roots exposed by wasting away of soil), enough to boil five Brant's eggs apiece. Reached home about 4:30 a.m. Saw a few Pomarine Jaegers, and more Long-tailed Jaegers than Short-eared Owls, a few King Eiders, two or three pairs of Golden Plovers, one Hoyt Horned Lark.

Shot a set of Longspur (8 NS) slightly incubated, from nest in side of little tussock on high bank. Another nest taken by Lon last swale was too far advanced in incubation to blow.

June 23 (Sun). Thick fog most of day. Light N wind. Reached home about 7:30 a.m. One dog lost pack containing light of one Brant but it was found in afternoon. Saw ♀ King Eider sitting close in grass near pond, but no nest. Saw black Pomarine Jaeger and a white one flying together. Pair of Red-throated Loons in lagoon at Tukpalaitt. Clear at 2:30 p.m. Wind N.O, chilly. Went out after Long-tailed Jaeger's nest found yesterday. Jaegers more wild than yesterday. Shot ♀ # 835. Two eggs in nest, a little hollow in ground, lined with few willow leaves, and grass. slightly incubated & bird rather wild.

Shot ♂ Rock Ptarmigan # 839. about half changed to summer plumage.

June 23 (Sun). Cloudy in evening but bright sunshine after 10:30 pm. Slavisbek and Oelokak came from Baillie Island with two sleds at 10:30 pm., for the stuff cached here.

June 24 (Mon). Clear from midnight to 12 M. Light NW wind. Freezing hard until 4:30 a.m., snow crusty, and sunny ice about 3/16 in. thick. Started for Baillie island 12:15 a.m. Passed Cape Bathurst 2:30 a.m. Fairly good travelling East of Cape Bathurst - no very wide ice cracks, and only melted pocket holes in the ice. Some pretty deep holes along the Bathurst sandspit. Open water all along shore inside sandspit and we had to keep outside wall of shore. Deep holes between the ice cakes, and we had a pretty time following zigzags of ice cakes. Landed at village 3:30 a.m. and pitched tent near Bernard's. Cloudy in afternoon. Strong West wind in evening. Light snow falling 11-12 pm. A few Eiders and Old-squaws flying.

A Ross' Snow Goose (Chen rossi) was killed near Little Whale Bluff last week by Jawbone and brought up to the Roseate. Capt. Wolki says that some seasons he used to get a good many at Horton River. Capt. Bernard and Bob John started out on an egging expedition in the land back of Cape Bathurst today.

Kokkamma's sled came from East today.

June 25 (Mon). Wind W. at 2.00 a.m. Cloudy most of day. Occasional flurries of sleety snow. Wind W.N.W. at midnight. Freezing

Lent Ochotak my shotgun last night and he and Okbayuak went egging to Little Whale Bluff. They returned today Ochotak found only one Black Brant's nest on 23 eggs. The only set of six I have seen. / Set 195/16 incubation slight. Both parents shot; also 7 King Eiders, some Old-squaws and a pair of Rock Ptarmigan. He brought a nest and five eggs of Long-spur, with both parents, but all were cracked. Okbayuak got four Brant's eggs. Got one Brant and one ♀ King Eider from Ochotak.

[Took set of six June 28, 1912]

Old Nauyaouk brought me a long wooden tool case (one piece dug-out) and several relics from old grave on "Big" Baillie Island. Bought same for can powder, also gave him one Black Brant. He gave me a Short Eared Owl (B * 840). Shot about 20 ch. Skinning birds, blowing and packing eggs all day.

Bernard and old John returned in the morning. old John with only two or three ducks. Bernard found nests as follows:- Black Brant 4/4 5, slightly incubated; Black-billed Plover 4/4 fresh; Red Phalarope 2/4 fresh; Rock Ptarmigan 1/11 advanced; Parasitic Jaeger 2/2 Arctic Tern 2/2 Longspur 2/4 ads; Baird Sandpiper 1/4 slight. King Eider 6/6 fresh.

June 26 (Wed.) Cloudy Cold. Wind WNW all day. A few Eiders (King Eiders and Pacific Eiders) going west and some still going East. Capt. Wolki says that those going East are still fat, while those flying west are getting pretty lean. He saw two Spoonbills (Spatula clypeata) yesterday; says he shot them occasionally at Horton River, and shot one at Booth Island in 1910. Green-winged Teal said to be fairly common at Horton River, and he found eggs. Today he shot a Yellow-billed Loon (a pair seen); one Pomarine Jaeger (dark phase) and a large Eider and a flock of one ♂ and six ♀'s seen going west. Head and wing only were left when I got over to ship. (Wing length 11⅞ in.

* 844, Somateria ~~mollissima borealis~~ v-nigra [Head]

June 27. (Thurs.) Cloudy all day. Wind WNW. Snowflakes flying at 12 M. Ground white with frost. Sun set at 8 p.m. Ducks flying west all night. Light WNW wind at 9 p.m. Murialite brought me a bunch of archaeological specimens taken from old grave on land back of Cape Bathurst today - bone snow knife, stone arrow heads, whaling toggles, bone arrowheads, &c. Bot same for 25¢ (Silver) and one pkg. cigarettes. Finished skinning

June 27 (Thurs.). last of my birds and blew the last 7 the eggs tonight

June 28 (Fri.). Warmer this morning. Sun came out shining somewhat faintly through slight haze. Light W. wind. Three little Brown Cranes flew over sandspit going eastward. I Bernard, Old John Kuhl and myself all started out together egging. Rowed in Old John's canoe to Cape Bathurst; lead of open water from 30 to 100 yds. wide along shore inside of sandspit. The channel which was washed through sandspit last summer (near Cape Bathurst) deep enough for boat passage, was complete filled in again last fall and there is scarcely any trace of the old channel. Left Cape Bathurst 4.40 p.m. Bernard going south and Old J and I east. Took three dogs with pack saddles - "Roger" "Nullutt" and "Long John". Reached Tatpaloitt Lagoon 7.30 p.m. Rather cloudy NE wind, but sun still bright. Slightly cloudy during the night and slightly foggy at times. Paused a little to ½ E of our former course to Immaculate - fairly large lake about N. of Im. - still full of ice and a few small ponds. No Oldsquaw seen here - a few Jaegers - Parasitic, Long-tailed, and Pomarine - numbers of Phalaropes (both species). Crossed Immaculate at single and cached a dog-pack load of wood at point, then waded out. Numbers of Black Brant flying about and a few seen sitting on nests. I found sixteen Brant eggs ¼ ¼ ⅓ ½ ½ ½ all slightly incubated - about the same stage in all

June 28 (Fri.) nests, whether it contained one egg, two, three or six. Old John found nineteen eggs (Black Brant), including one set of six which I obtained. He also flushed a Y Old-squaw from a nest on a little mossy hummock in shoal water about ten yards from Brant's nest — five fresh eggs in Old-squaw's nest.

Set 150/N6 Black Brant; slight incubated. Embryo formed but slight. Nest on a little mossy elevation in shoal water. Y on nest. Nest composed externally of grass and lined with down Y grass.

Set. 159/N4 - Blk. Brant; ~~slight inc.~~ Nest on little island in marsh. Nest composed Y grass and mossy lined with down. Y on nest. Incubation about one-third.

Saw a pair of Red-throated Loons (Gavia lumme) swim out from a little inlet of open water at one side of marsh. As I approached they took flight. One soon returned and circled over my head as I came near nest — a wet mass of vegetation heaped up in the middle of a little clear space about 6 ft. in diameter, opening into larger inlet. Two eggs in — Incubation begun. Set. 152/2

Passed by place where I took a single egg Y Black-throated (or Pacific) Loon June 2nd. Saw pair of Loons swimming out and shot one — #849. ♂ Gavia pacifica (?). Little fat. Testes

Nest large, well built up, half-floating in little open pool surrounded by grass in water about 9 inches deep. Nest well-cupped, upper portion composed of fresh reed stems laid in a circle. Two eggs — much

June 28. (Fri.) larger and darker than eggs of Red-throated Loon. Set. 151/N2 fresh.

Large numbers of Sabine Gulls all around the marsh, and I found six nests, scattered here and there. Nests usually on a little low, wet point projecting out into water, but sometimes on wet ground on flat boggy ground some distance (over 10 yds.) from water.

Set 153/N3. Nest a few grasses lining a little hollow in wet moss, on small peninsula.

Set 154/N3. " in similar situation.

Set 155/N3 " " " "

Set 156/N3 " on flat, wet boggy ground, about 10 yds from open water.

Set 157/2. " On small peninsula

Set 158/2 " " wet boggy ground.

Birds often seen sitting on eggs, but fly up when a person comes within 20 yards or more, and circle about overhead screaming Tsŭ-tsŭ-tsŭ-ŭ (very rapidly and shrilly). Somewhat less demonstrative than Arctic Terns. A few Arctic Terns flying about in company with Sabine Gulls, but no eggs were found today. In a part of the marsh where Sabine Gulls were congregated in hundreds (about midnight) no nests were found.

Sabine Gulls feed by walking over wet boggy ground picking up bits, or swimming in shoal water, also picking up minute particles from surface in manner of Phalaropes.

June 28 (Fri.). Large numbers of Red Phalaropes and Northern Phalaropes seen everywhere on the marsh but no nests found tonight. Saw a flock of nine Hudsonian (or Eskimo) Curlew, a little east of Cape Bathurst. They kept circling about in an erratic manner for some time, but did not alight. A pair of Snow Buntings seen along the bluffs a little East of Bathurst. Saw a pair of Golden Plover on dry ground west of Immaeuirk, but no nest could be found. Several Pintail Ducks flying around Immaeuirk. Flushed one female from little Knoll in shoal water. She floundered along the surface and I shot her, thinking she was trying to decoy me away from nest. Found that she was simply unable to fly having shed wing quills. Roger also killed another Pintail in the water, unable to fly, having shed quills. Pectoral Sandpipers seen here and there on low tundra and an occasional male heard booming. A few Semipalmated Sandpipers seen on higher ground. Numerous Long-spurs everywhere, an occasional Hoyt Horned Lark on high dry land. One Snowy Owl and three or four Glaucous Gulls near west end of Immaeuirk. Several King Eiders (♂'s and ♀'s) in ponds near here. Observed dark phase Pomarine Jaegers, but

June 28 (Fri). he flew a long distance and dropped in rough hummocky ground, and I could not find him.

Came out of the lake about midnight, made fire out of chips brought from Coast, boiled some slightly incubated Brant's eggs in my collecting can (a 5 gal. Coal oil tin). and made tea. Very cold night, young ice forming after 9 p.m. as thick as window glass at midnight, wearing our rubber boots and cutting the dogs legs as they waded after us.

Our feet were wet, and sometimes I could scarcely hold a pencil to mark a set of eggs, or button my coat, on account of fingers being numb with cold — this in spite of hard work wading on soft sticky bottom.

Shot two Black Brant — one male out of a bunch which flew over, and another ♀ from nest Set (5 ♂ ♀); also two ♀ Pintails. Two ♂ Rock Ptarmigan shot and fed to dogs.

"Nullukt" caught a large red-backed Mouse or Lemming on low wet grassy island ~~in pond~~ west of lake. Dog shook him up quite badly and mangled same. Numerous runways everywhere in grass on small islands and on low flats on the tundra elsewhere. Dogs caught two more on low wet tundra. They were very keen after them, nosing them out of the runways and shaking them to death. Rescued two more specimens before they were very badly torn. Natives call them Avinguatt, (Mouse ♂) or Amirklirk (Red Mouse ♂) — and say

June 28 (Fri.) they are not killing mutat (Lemming)
845 ♂ Lemming? 148 mm. - 18 - 20
846 ♀ " 148 - 19 - 19
847 ♂ " 154 - 19 - 22.

June 29. (Sat.) Clear, warm all day. Light NE wind. Along the coast the young ice which formed during the night did not melt away before 9 or 10 a.m.

Hunted around west arm of Innaernuk and connected ponds for some time in early morning, and got one set of four Brants' eggs from little island. Other Brant seen on nests on islands but water was too deep to get out. One pair of Black-throated Loons seen here. Last night several pairs of Black-throated Loons were seen in eastern arm of Innaernuk, a pair in almost every inlet or clear space - all pretty wild and flew up before a man could get within gun-shot. Shot three ♂ Rock Ptarmigan while going across the hills - all pretty dingy and yellowish, and back & breast half brown feathers; an occasional female Ptarmigan seen. Saw one Snowy Owl on land near Cape Baltimore. Reached Tatpalaiok 7 a.m. made tea and left there 8 a.m., John Bruntrup "Gully at 10 a.m., Cape Baltimore 11 a.m. and home about 12 M. - pretty tired.

Saw two half-grown Marmots near mouth of burrow. Came up within 6 ft of them

June 29. (Sat.) Bernard had returned home in the morning. During the night he had shot two Black Brant, several Ducks, and collected eggs: Golden Plover 1/4 with both parents; Baird Sandpiper 1/4. Red Phalarope 3/4 (with Phalarope 1/4) Black-throated Loon 1/2 Semipalmated Sandpiper 1/4 (nic sight).

Just after passing Cape Bathurst about 11:30 a.m. a flock of seven Little Brown Cranes flew over going west. Coming down from top of bluff to Sandspit, a Bathurst F flushed a ♀ Longspur from nest with four eggs, which I left to see if set would be increased. Bernard says he has found several nests with four eggs this Summer, well incubated. An occasional Hoyt Horned Lark seen on flat baked, cracked barren land along coast east of Cape Bathurst. Killed one ♂ which had a fat grub in his mouth. 848.5 C.a. Loft.) While we were cooking breakfast at Tapkpalerk about 7:30 a.m. a Golden Eagle soared directly over us, about 50 ft. up, going west.

The "Teddy Bear" floated loose in the afternoon. She had been free at both ends for some time and listed over a little but has been fast in ice amidships until today. The "Rosie H." is loose, the ice having been cut around the schooner. One can still go on board the "Rosie H." by using a sled to bridge the deepest part of lead of open water near shore.

Blanchett killed two Seals on ice today

June 30 (Sun.) Clear, warm day. Light NE wind. Foggy in evening. Young ice began to form about 8 P.M. and all leads covered with young ice by midnight. Capt. Wolki much discouraged over lateness of the season. He was hunting ducks near Cape Bathurst, and saw large flocks of Eiders going west off shore. He went out on the ice about two miles and found it solid and dry, very little water in holes, small cracks and snow which fell last week not melted from ice yet. He only shot five Old-squaws. Thick Little Brown Cranes flew over in forenoon. In the evening he shot three King Eiders (all pair) and three Old-squaws. Natives shot a few Ducks. Several flocks of Eiders came west along the sandspit in the morning and large numbers seen flying west off shore.

Old John hauled in his fishnet today and got one Sculpin.

Bernard went over to the graveyard about half way up the sandspit. Several coffin boxes lying on the ground - native - and took a fine nest and seven eggs of Snow Bunting from inside of coffin box. He found the nest just completed one week ago.

A Snow Bunting was building a nest on rudder post of Teddy Bear but abandoned same when schooner visited a few days ago. Capt. Wolki says that there is one Snow Bunting's nest under false bottom in stern of Wolki's boat on the beach and one in Komanna's boat.

June 30 (Sun.) Last year one pair of Snow Buntings made a nest on jib-sheets of "Rose H.," another in a crevice of Wolki's warehouse and others on various natives' racks (frames for caching goods) 7–8 ft. above the ground.

Bernard sick all day today, and Old John and I took turns keeping his fire going. Pleurisy pains in lower part of thorax seems to be main trouble.

Saw one Yellow-billed Loon flying west

July 1 (Mon.) Slight fog at 12:30 a.m. Calm. Freezing hard. Hoar frost on everything, and young ice pretty thick. Bright, warm sunshine at 7:00 a.m., but before noon thick fog set in before noon, and continued all day and night. Raw, cold evening, freezing a little. Sleety snow for a little while about 9:00 p.m. Very few Ducks flying.

Bernard found that on blowing Snow Buntings' Eggs taken yesterday, that they were advanced in incubation, and thinks that last week he must have looked into the wrong nest finding it empty, as there were two nests in the coffin within a foot of each other. Snow Buntings' nest on "Teddy Bear" had two eggs today, and a bird sitting. Baird Sandpipers and Golden Plovers' Eggs advanced in incubation; Phalaropes' egg slightly incubated.

+22° F. at midnight.

July 2 (Tues.) Hazy bright sunshine in forenoon. Slight fog. Fairly strong NW wind. Cloudy in afternoon. Slight fog in evening. Very few Ducks flying inshore. Capt. Wolki likes and on ice all day and killed 16 Eiders.

+28° at midnight.

July 3 (Wed.) Dull hazy sunshine all forenoon. Fairly strong NW wind. Chilly. A few Old squaws flying, and an occasional Arctic Tern flying along the sandspit. Leads of open water along shore widening out a little every day, in spite of the fact that the young ice that forms every night scarcely melts before noon. The tide currents seem to cut away the ice along the edges of the cracks faster than the sun melts in this kind of weather.

Crossed over to Baillee Island on the ice about 5:00 p.m. and hunted on the island until after midnight. Had some difficulty crossing wide cracks near end of Cape Bathurst sandspit (& village) but ice solid in middle of Channel and on island side. Numerous pot-holes and channels melted into surface of ice, some 6-8 in. above my knees, but all could be waded easily with long boots. Strong wind from WNW and snow flying pretty thickly, from 5:30 to about 7:30 p.m. Sun came out faintly about 7:30 p.m. and sky cleared, but thick fog came in from westward about 9:00 p.m. and persisted with varying intensity until about 2 a.m. Young ice forming after 10:00 pm - Chilly weather, my fingers got so cold that I could scarcely pack eggs.

July 3. (West). Numerous old graves all over northeast end of Baillie Island — fragments of sleds, canoes, etc., scattered everywhere. Seldom any traces of human remains visible. Found four old human crania lying half buried in tundra moss, — not much any signs of graves. Small bird deserted nest in one examined. Had to go a long way around a long, crooked inlet which opens opposite end of sandspit and runs nearly to north side of island. Northeast third of island dry, cracked, barren — a few Longspurs, several pair of Golden Plovers, one pair of Black-bellied Plovers and a few Rock Ptarmigan the only birds seen.

West of inlet, on top of island broad wet grassy flats with numerous little hummocks. Large numbers of Pectoral Sandpipers, a few Baird Sandpipers, Semipalmated Sandpipers, Red Phalaropes, one Red-throated Loon, several Pomarine Jaegers, a few Long-tailed Jaegers, one Parasitic Jaeger (dark phase) seen. Saw a Pomarine Jaeger rise up from a comparatively dry place on wide marshy flat, and going over found nest and two eggs on a little elevation of turf in middle of wet, soft tundra land; nest merely a few leaves and grasses lining a little hollow in the ground. Eggs resemble Long-tailed Jaegers' but larger. Set 1 2/2, incub. slight. Both parents flew around the nest, but kept well out of gun range (both light phase).

July 3. (Wed). Had intended to go over to Southwest Sandspit of Baillee Island, to look for Terns' nests but about two-thirds of the way over, struck another large deep crooked inlet, running inland to north two or three miles. Followed around to eastward of its numerous branch gullies and reached northern end about the time fog blew up, and decided to go back home. A few pairs of Golden Plovers seen on high dry hills, one Short-billed (?) Gull, and Jaegers here and there. Saw numbers of male Rock Ptarmigan here and there and shot seven. Some specimens were nearly changed to summer plumage, while others were nearly white yet. Sometimes shooting at a ♂ Ptarmigan would scare up a ♀ close by - females all in full brown plumage. I did not molest the females, as they all had nests now. A large lake in center of island had on a hundred Old-squaw Ducks. No Eiders or Black Brant seen.

Capt. Wolki says that some seasons quite a number of Black Brants' eggs are taken on the island, and one year he took two or three nests of Snow Geese.

Saw a pair of Golden Plovers running away on high dry upland about 10 A.M. uttering low plaintive "tee lit" note. Sat down to watch and one bird came

July 3 (Wed.) back and set down on nest about fifty yards from me. Went over and bird flew up from four eggs; skimmed along ground and ran about 30 yds. when I shot her. Nest merely a few small leaves, lichens and mosses, lining a little hollow in dry, lichen-covered ground. Set 19/4, incubation slight

#850. ♀ Charadrius dominicus.

Saw a pair of Snow Buntings around a large above-ground grave near north-east end of island. They evidently had a nest in the grave — a large pile of logs, canoe timbers, covering a mass of old skins, etc (comparatively recent grave — several years old), but I could not find nest without removing the whole cache. A large flock of Old-squaws seen going west about midnight.

Old John caught the first fish of the season in his net today — a Whitefish (Kak-tak). Old Nanyaruk also hooked two.

Found Longspurs nest, five young, ♀ on nest

July 4 (Thurs.) Thick fog for some time after midnight lifting a little at times — light W/W wind. Crossed from Baillie Island to sandspit between 12 and 1.00 a.m., snow crusty and young ice forming over channels and pot holes. Sleety snow falling about 2.00 a.m. Dull hazy sunshine at 8.00 a.m. Several fish in John's nets this morning and natives all setting nets in broad lead along shore

July 4 (Thurs.) Practically the whole population fishing with hooks from edge of big floe about 10 or yards from shore, and a good many fish caught during the forenoon. Flags up on the two schooners mast-heads in honor of the day and the natives soon followed suit by hoisting their flags on poles in front of their houses. It has been the custom here es in the Mackenzie delta for every native to hoist a flag in front of his camp every Sunday. Every native who has a boat has a flag of some sort — original patterns, mostly.

Near the northeast corner of Baillie Island last night on high dry land, I saw a young fully-fledged Hoyt Horned Lark, able to fly 20-30 yards at a stretch. It was accompanied by 2 parent, which hopped along at its side as I chased it for some distance.

Snow flying pretty thickly from about 10 p.m. until after midnight. Strong WNW wind. Ground barely whitened with snow, but bunches of snow drifting into crevices.

July 5 (Fri.) Cloudy all day. Light WNW wind. Few ducks flying. A flock of 20-25 Black Brant flew over the sandspit going west. Half a dozen fish in Old Johnie's net. Most of native population fishing with "nitsik" from ice cakes about 50 yd. off shore — all day without success. Shortly after midnight fish began to come in, and everybody

July 5 (Fri). Caught good strings of "Kak Kak". Capt. Wolki skinned two fine ♂ Pacific Eiders (Somateria v-nigra), in full plumage shot day before yesterday. One had not yet started to moult, the other had a good many pin feathers on neck. +3½° Fahr. at midnight.

July 6. (Sat). Cloudy in early morning hours. Bright hazy sunshine after 8:00 a.m. Light NW wind. Much warmer than for past few days. A few Ducks seen going west in forenoon. Skinned a ♂ Parasitic Jaeger which Bernard gave me yesterday.

#85 ♂ Stercorarius parasiticus. Cape Bathurst.

He shot a pair of above, and took their nest and two eggs June 28th, a little west of Cape Bathurst. Nest on low, rather wet, grassy tundra near a pond. Eggs were slightly incubated.

A Seal came inside the sandspit about 2:00 a.m. and natives kept up a continuous fusillade for about ten minutes before someone killed it.

Capt. Wolki and Aŭasiaunk went on ice all day and killed 22 Ducks. Sunshine bright until 3:00 p.m. when light fog came up from westward. Occasional flocks of Ducks, mostly ♂ King Eiders, seen going West; one flock of some twenty Black Brant about 4 p.m. Went up on the flat table-land tundra back of Cape Bathurst about 4:00 p.m. and stayed until about 10 p.m. Birds very scarce. Saw a pair of Long-tailed Jaegers circling about over flat, dry grassy land. Finally one alighted about 200 yds. away, settled down, moving body considerably. Going one

July 6 (Sat.)

I found two eggs resting in a little hollow in bare, mossy ground. Set 19/2 incubation ~~slight~~ advanced. Both parents swooped down within 12-15 ft. of my head uttering a shrill "Ki-ī-ki-ī"

852. ♂ Stercorarius longicaudus. (Rather thin)
853. ♀ do. (Very fat)

A little further on, saw another pair, circling over a wide meadow. One came up over me screaming, then flew away. After alighting for a few moments in several different places within a radius of 50 yds. she finally settled down in one place, often hovering over it for some time — about 40 yds. from me. I went over, and Jaeger flew up when I was about 150 yds away. Found one egg in a little hollow in ground. Set 2/2, incubation about one-third. Birds were more wary than last pair, but I shot one

854. ♂ Stercorarius parasiticus. The mate came near at intervals but I did not try to shoot it, as a bunch of 6-7 Buff-breasted Sandpipers had alighted near by — the first I have seen in this region. Stalked two which were together. Shot one, and the other flew a little ways, then came back to where the other was fluttering and I got it also.

856. ♂ Tryngites subruficollis; legs dull orange.
857. ♂ " "

Another flock of six or seven Buff-breasted

July 6 (Sat.) Sandpipers seen later in the evening, feeding on damp tundra.

Pectoral Sandpipers fairly common and a few Baird Sandpipers seen; Longspurs abundant.

Saw a few Rock Ptarmigan — two males near together alternated in making short suicidal flights, dropping down with a rattling croak, as in the spring. Saw one ♂ sneaking away through the grass in company with two females. Shot ♂ 888. ♂ Lagopus rupestris. - nearly in summer plumage, but back spotted with a few white feathers.

Found a few ducks on side of big Gully S. West of Cape Bathurst, and made a lunch, and warmed up, as it was foggy and rather chilly. Going in forming Going down the rough hummocky, dry side of gully, I flushed a Baird Sandpiper from four eggs, under my very feet. It fluttered away there stopping until out of gunshot. No nest at all — merely a wedge-angled narrow crevice between cracked moss hummocks. Waited a little while and flushed bird again shooting it this time. 889. ♀ Actodromas bairdii.

Set 2d incubation slight.

Young ice formed over the whole shore head from 100 to 200 yds wide inside the sandspit, before midnight. Dead Calm. Natives jerking out fish pretty fast about 11.30 p.m.

July 6. (Sat.) Saw one Sabine Gull feeding on the edge of broad mud flat, at low tide, in big gully, about 9 a.m.

While eating lunch, a Golden Plover came up pretty near me, piping a plaintive "tu-lee." Mate was not visible and as I moved off he kept running ahead. On the other side of small creek, about 400 yards away on high dry hill side, another Plover appeared on the scene and as dogs chased them, fluttered along the land. I went off about 300 yards and sat down. Within ten minutes one Plover had settled down. I went over and found four downy young crouched among little gray, lichen-covered hummocks. They remained perfectly motionless, crouching low, until I picked one up, when they all scattered and tried to run away. Color – white below, white around eyes, and white collar. Crown, back, rump, thighs, finely mottled some down feathers jet black mixed with other feathers with bright golden yellow tips. Bill black, iris brown, legs dlab.

859. ♀ ad. Charadrius dominicus.
868♂ – 861♀ 862♂ 863♂ juv. C. dominicus.

Took a box full of moss, grass, lichens, from spot where young Plovers were lying to show protective coloration.

July 6 (Sat.) Made a collection of about half a dozen species of flowering plants, besides ground willow, all which I observed in bloom today in vicinity of Cape Bathurst. The larger yellow Cruciferous-like species grows in low wet places, the others on dry, clayey soil.

July 7. (Sun.) Hazy bright sunshine in early morning. Calm. Warm. Cloudy in afternoon. Few Ducks flying. Old John shot a Ø King Eider, the boys having alighted near camp. Fish being hooked in quite large numbers around shore today. Bernard, Old John and I were out on ice "fishing" for a little while about midnight, after all natives had quit, but we got never a bite. Tide was running out. Wind hauled to about East (true) in evening. Slightly foggy. Capt. Wolki and others hunting today (not very favorable) on sandspit, and shot only two Eiders. He said that a good many Ducks passed west, going further off shore over the big ice ridges. Chilly last night. Going ice forming at midnight.

July 8. (Mon.) Hazy dull sunshine in forenoon. Light N.W. wind. Cloudy afternoon. Foggy in evening. Saw the flock of Ø Pacific Eiders going west in forenoon. Old-squaws flying here and there at all times. "Fishing" still good today, but not many people out. Skinned birds all day. Very chilly, last evening

July 8. (Mon.). Capt Wolki and Arasmuck out on ice all day, and killed about forty Eider Ducks. Said they could have killed as many more if they had had more shells!

July 9. (Tues.). Cloudy all day. Wind about west. Rather chilly. No fish being caught with hooks and few in nets. Few Ducks flying. Yellow billed Loon (Gavia adamsii) flew over the sandspit. One had been seen almost every day for some time. F. Jacobsen quit the "Rosie H." today and went on the black, putting up tent up near mine. +30° Fahr. at 11½ p.m.

July 10. (Wed.). Cloudy morning. Light NW wind. Foggy in afternoon. Fog lifted 7 p.m. Sleety snow, whitening the ground at 11:00 p.m. +28° at 12 mid. Freezing at 8:00 p.m. Capt. Wolki and his two natives killed about thirty Eiders out on the ice — mostly King Eiders. Wolki used Stone net near end of bay near Cape Bathurst and caught a good many fish. Few Ducks going W. at sandspit. Behind shed a S. King Eider and 7 a flock going west in evening. Scarcely any fish netted here during day. Old John and I took eight Whitefish (Coregonus) one net in evening but nothing in other three nets.

July 11. (Thurs.). Cloudy morning. Light WNW wind. Turned out 9:00 a.m. by people shouting that very

July 11. (Thurs.)

large flocks of Ducks were flying to the west — King Eiders, Pacific Eiders, and Old-squaw males. All men went out on the ice shooting today. Most of the Ducks came in flocks of from twenty to forty — all males — though occasionally smaller bunches or single Ducks would come along. They usually followed a broad strip of black, dirty ice, with numerous deep pot-holes and cracks, running off shore — about 500 yds. off shore a little East of Bathurst, passing about half a mile off end of sandspit and running past NE corner of Baillee Isl. Strip of dirty ice about ¼ mi. wide and Ducks passed along either inner or outer edge of this strip. They usually fly in straight lines, en echelon, sometimes in V-shaped lines like geese. I loaned my gun to Ochotak in morning and had to chase him over the ice for about two hours to get it back — and by that time the greater part of the flight had passed. For about three hours a large flock would pass every few minutes — sometimes four or five flocks in sight at once. They were mostly King Eiders, about one flock of Pacific Eiders to ten of King Eiders. Afternoon, scarcely anything but male Old-squaws flying, and in a somewhat erratic manner.

July 11. (Thurs.) I only got four Ducks – two ♂ King Eiders and two ♂ Pacific Eiders. Skinned one ♂ Pacific Eider. (86x. ♂ Somateria V-nigra.)

Pacific Eiders are beginning to moult – not noticeable externally, but skin of neck full of pin feathers some of them already bursting out, and showing up if neck feathers are disturbed – birds still quite fat. ♂ King Eiders are getting rather poor, and the fatty hump on bill is getting soft and flabby.

Capt Wolki and his natives killed about forty. Ikaivuk fifteen (using reloaded brass shells in Remington automatic, as single-shot gun). Kowanna killed about a dozen Eiders, and half a dozen Old squaws. Kaayavuk six Eiders.

Helped Renard and Oldjohn make a swap near head of bay. Got twenty-two whitefish. Saw flock of about fifteen Black Ducks going east. Freezing in evening, and foggy.

July 12 (Fri.) Foggy most of day. Light NW wind. Calm after 6 pm. Light Westerly breeze about 10 pm. Young ice forming at 12 pm. Very few Ducks flying today. Capt. Wolki killed Eight. Oldjohn and I went fishing near end of bay. Made three swaps – 21, 23 and 26, and gilled ten – total 80 whitefish, three and 1 small flounder.

July 12 (Fri.) Sabine Gulls feeding on mud-flats at low water. Also Sandpipers on beaches and an occasional Old-squaw flying. Saw Yellow-billed Loon flying over. Walked across Koko's Whalebone to second big gully SE on Liverpool Bay, for wood, but did not find much good wood. Pretty wide lead of open water on flats and shoals on east side of bay.

Bot 16 lbs bot sugar from Bernard. $3.00

July 13 (Sat.) Dull hazy sunshine in forenoon. Light NE wind. Warmer. Mixed fog came up about 11:00 a.m. and hung on until 5 or 6 p.m. Sky cleared a little in evening. Went up towards Cape Bathurst with John Kuhl and Jacobsen and made four swaps — 19 + 56 + 14 + 0 = 89. + twelve gillednets. Whitefish. Saw one flock (small) of King Eiders flying west in fog, also scared up a bunch of 15-20 Pacific Eiders from shore-water outside of sandspit. One Sabine Gull feeding on beach and a few Old-squaws. About 8:00 p.m. Eider Ducks began to fly from Eastward in great numbers — 20 & 100 or more in flocks following each other in endless procession — mostly King Eiders, a few flocks of Pacific Eiders and sometimes two or three big white-backed Pacific Eiders flying with a bunch of King Eiders made me almost take them for Snow Geese. Indeed, a Pac. Eider "dresses" larger than a Brant, about same as Snow Goose, but with neck and legs shorter.

July 13. (Sat). Everybody hurried out on the ice and shot at Ducks until about midnight when the flight slackened although an occasional flock kept coming along for two or three hours longer. Bernard and I shot four & King Eiders apiece. Some of them looked as fresh as in Early spring but others were beginning to moult around head and neck. Some were fairly fat, with firm hump on bill still colored bright orange. The lean ducks have this fatty hump soft and flabby, and pale yellow in color. We count about 3/4 mi. off shore opposite village, as most of Ducks were flying along edge of black ice about in a straight line from Cape Bathurst to NE corner of Baillee Island. We had to use the little skin canoe to get off from shore here. By following a big tortuous, narrow lead running about south from shore here one could paddle out to sea at least a mile, but we "portaged" in many places. The black ice is pretty well cut up by numerous intersecting Channels, these as well as the big lead, do not go through the ice, except in an occasional small hole, being from one to four feet deep, melted from surface. Wind blowing fairly strong from about NE (true) all day and night. Very cold at night. Young ice forming over leads at 8 p.m. 40° Abst

July 13. (Sat.).

as to retard canoe. Between 12 and 1 o'c. young ice was so thick in many places as to require a smart blow with paddle to break a path ahead for the canoe.

Eider Ducks are pretty hard to kill often large bunches of feathers come down at a shot, but the birds fly on. Many of them fly along with the flock for some distance then leave it, and perhaps fly half a mile further before dropping. I fired at one flock, which passed me. Soon two birds left the flock, going out at right angles, to right, ~~and~~ flew about half a mile and dropped together. Going out some two hours later I found them about 20 yds. apart, one stone dead, and the other badly wounded. If a wounded Eider gets into a tide crack where he can reach deep water it is very hard to get him. A couple of days ago I saw Nanyaruk trying to get a 5 lb Pulpic Eider which was in a broad pot-hole about 3 ft. deep, with a small hole (about 2 ft. drain) running down under the ice. The Duck would dive down under the ice through this hole and remain under for at least three or four minutes, then come up, barely sticking head out of water two or three times at intervals of a few seconds, then make another long dive. The old man made several unsuccessful grabs with a long seal gaff, at every rise and ultimately got his finger. Saw one long tailed Jaeger out on ice tonight. also flock of 12 or 15 Black Brant going over.

July 14. (Sun). Dull hazy sunshine in morning. Strong North East wind. A few Ducks flying in morning but no large flights. Dull afternoon, when a number of large flocks passed over sandspit and outside — both Pacific and King Eiders. An easterly wind is supposed to be good for gillnet fishing here, but J. Kuhl caught only two during the night in two large 25- and 32-mesh nets tied end to end. Cloudy in evening. Chilly day.

This is a remarkably cold late summer. The sun has not once shone brightly during July. Capt. Bernard says that thermometer has dropped below freezing every night since June 16th. No mosquitos have been seen here or on mainland near here this season. However, mosquitos are very rare here at any time, as there is no breeding place for them although they are usually found in some numbers on the tundra near Cape Bathurst.

Spend day packing specimens. I am mighty hard put to squeeze my skins, eggs, etc., into the limited supply of boxes which I have. Prospects look more blue every day for ships coming in from outside although we hope that Capt. Cottle will come in from Herschell Island. It is mighty discouraging to think of another year in the Arctic on top of the four years past — and practically rid of everything.

July 15. (Mon.) Dull hazy sunshine most of day. Cloudy in evening. Slight fog towards end of night. Light northerly wind. Calm after 9 p.m. Occasional large flocks of K. King Eiders and K. Pacific Eiders passing west during the day, flying closer inshore than usual often going over sandspit. Very few fish King caught in gill-nets, and most of nets taken out of gut again. Capt Wolki and one or two of his men hunting Eiders every day, and the women plucking and salting them down. Jim Hill told me last night they had salted about ninety. Missed a silver "niksik" fish hook today (one hammered out of a 25 ¢ piece. It was on a gut snell and line attached to a short pole stuck in ground inside door of my tent and some visitor neatly nipped off the gut line and hook, either while talking to me, or else came in when I was away. This is the first undoubted case of outright thievery which I have encountered since coming East of Mackenzie — i.e. except Coronation Gulf.

July 16. (Tues.) Bright hazy sunshine to 9.00 a.m. Light NW wind. Boxed specimens all day and painted addressed on numerous boxes and packages. "Amer. Museum of Nat. Hist. New York City." Boxes XIX – XXV. (See small Diary Fall 1911 – continued from boxes I – XVIII, stored here last fall.

July 16 (Tues.) Dull hazy sunshine most of afternoon but light of considerable actinic power, printing Solio paper very fast. Printed duplicate copies of a number of Capt. Bernard's Colonation Gulf negatives. He has offered to let me make as many prints as I wish from his negatives. Some of them are unique, and very good. e.g. Two old women from near Kent Peninsula — oldest women in Coronation Gulf. Very large group of Cor. Gulf people listening to open air phonograph concert. Stefansson and Billy's start for Victoria Land — 1911. Snow-house-building (finished). Rough leggers Hunter's nest etc.

Freezing at midnight. Calm. A few flocks of Eiders flying during day.

July 17. (Wed.) Bright hazy sunshine all day. Light NW wind. Made a few more prints. Repacked and labelled more fully the set of Franklin Bay (Smoking Hills etc.) geological specimens also a few archaeological specimens and boxed same. Steadily many Ducks flying today. Dr. John gilled 25-30 fish today but very few yesterday. Ice is fairly well broken up in bay between sandspit Island and mainland, broad open channels here and there.

July 18 (Thurs.) Bright hazy sunshine all day. Rather warm, but young ice did not get melted away until afternoon. Light NE wind. Calm in evening. Ducks began flying westward in large numbers — from about 6 p.m. to 11 p.m.

July 18. (Thurs.) about as many Pacific Eiders as King Eiders now. Occasionally a King Eider is taken with head finely streaked with brown feathers and occasional brown feathers on shoulders. Saw no Pacific Eider killed tonight which had a number of black feathers mottling white of back. Hammett killed nine King Eiders & three shots. Amusement the cripple sitting down on sandspit about 150 yds from my tent killed five. The other day Capt Wolki dropped nine with two barrels and Romanna ten.

Saved a large bag and 2 old sail cloth & pack Kegnolikik Clothing specimens, etc

July 19. (Fri.) Dull hazy sunshine in forenoon. Light NW wind. Cloudy in evening. Calm for a little while. Sprinkles of rain at intervals 9–12 p.m. rather large drops at times. Not freezing at 11 p.m. – the first time this month (at shore here) but NW wind raw and chilly. Few Ducks flying today. Capt Wolki shot about twenty yesterday, and a female Black Brant. The Brant had some feathers on belly grown out about an inch long, matching a dense velvet-like coat. Large numbers of Whitefish caught with hooks in forenoon and again in evening; people fishing from floating or Grounded ice cakes around Point. At noon ice had crowded in to shore and walked on board the schooner dry-shod from the shore.

July 20. (Sat.) Bright hazy sunshine most of day. Light NW wind. Finished packing up all Victoria Land clothing (three large sealskin bold-all bags into bags of sail canvas bags sewing. Made specimen box for 43 rock slides lamp and stone pot (Joyce Corporation) pulling and labelling other small articles (Victoria Land) and local archaeological material. Scraps of boards for boxes and any old rusty nails that can be extracted = are hard to obtain here. Most of ice seems to have moved out of bay between Baillie Island and mainland. Few Ducks flying today.

July 21 (Sun.) Cloudy most of day with occasional spells of hazy sunshine. Rather warm (i.e., no few degrees above freezing. A Channel is rapidly opening out & seaward open nearly all the way across from end of sandspit to Baillie Island and running out nearly opposite to NE end of island. A few Ducks flying NW Shore - Capt. Wolki killed Eskimo today. Ikarmirk shot a seal this morning.

July 22. (Mon.) Cloudy morning. Calm. Light NE breeze during afternoon. Calm evening with light breath of air from SE from 9:00 - 12:00 p.m. Went to Big Gully South of here on Liverpool Bay, for wood with Old John - 8:15 a.m. - 5:30 p.m. Channel open between island and mainland and beyond, as far as we could see, considerable floating ice

July 22 (Mon). Shot a Seal which came up some 75 yd. from boat, smashing skull. Seal did not sink and we recovered it. Several other seals seen near here about same time - in deep channel opposite Little Baillie Isl. The whole bay here is pretty shallow, in most places not over a fathom deep - on East side mudflats uncovered at low tide, running out $\frac{1}{2}$ - $\frac{3}{4}$ mi from shore. In the center of the bay (as sounded) there is a rather narrow, crooked channel of some two or three fathoms depth so that a small ship can go through. Water pretty clear, and we could see mussel shells on bottom in most places. A muddy tidal inlet runs up a little ways inland, as big gully lined with driftwood, mostly cottonwood heavy and waterlogged. Saw a few Longspurs, Snow-flakes and Marmots along the coast. A few flocks of Ducks flying all day - some coming from southeastward over the land. Dropped two out of a flock of about twelve Pacific Eiders flying west but lost one - they would dive for a long distance then thrust up head for a second and down again, like a Grebe. Finally she got refuge under an overhanging ice cake, and I got a shot as she paddled out. Saw another flock of females going west. About 6 p.m. Ducks began to fly in large numbers and almost continuously steamed by until after midnight - mostly Pacific Eiders and King Eiders - a larger proportion of Pacific Eiders than heretofore.

July 22 (Mon.) Jacobsen shot twenty Eiders - nearly all ♂ King Eiders one female. Some ♂s still have nearly full plumage but most of them have blue and green on head much faded, nose "hump" shrunken, and head and neck streaky. Not very many fish caught today.

July 23 (Tues.) Light SE breeze at 1:30 a.m. Quite Clear. Bright hazy sunshine in forenoon. Light breeze from about due North. Very many large flocks of Ducks, Eiders and Old-squaws) alighted in large clear space off point of Baillie Island last night and early morning - Bay nearly clear of ice this morning but ice came rushing in from S.W. in afternoon and covered a solid mass nearly to the beach, shoving the "Rosie" slightly aground in mud and Captain "Teddy Bear" pretty well over. Old Jim caught a school of about 60 fish which ran into one end of his long net - no fish in other nets. Scattering flocks of Ducks flying all day. Yellow-billed Loon flew over, also Arctic Terns. Inuvinitt and Jacobsen went to SW sandspit with ship's dinghy yesterday morning but were caught by ice and did not get back until this morning. Says that Liverpool Bay is open to westward, and open water near west end of island.

July 24 (Wed.) Hazy sunshine shining through pretty thick fog. Brisk NE wind. Cleared up in middle of day. Thick fog settled down about 8 o'clock and light rain around 9:00 pm. Brisk NE wind in evening. Few fish in nets today. Several Seals inside of sandspit. Jakobsen killed one. Capt. Wolki shot one from "Rose H." yesterday. "Jawbone" Teddy got part a .30-30 steel bullet through base of his big toe this morning. Bullet made small hole at entrance and almost inpenetrable hole at exit - coming out through ball of metatarso-phalangeal joint; passed through deck, and missing his wife by about a foot.

Baled my Blue and Brown Bear skins to-day. Three bundles today. One Brown Bear 4' and one Cariboo skin getting mouldy and I took them over to storehouse to dry.

July 25 (THURS.) Clear morning. Strong NE wind almost a gale. Christian Klengenberg arrived about 1:00 a.m. from southern part of Liverpool Bay, with his two-masted schooner-sloop. He wintered near eastern mouth of McFarlane or Anderson River. A few Caribou there in winter. A Kanyak killed 4 in K. got twenty-eight White Foxes, and number of Muskrats. The natives who went there this spring have been having a hard time - few fish, and Ducks and Geese flying high and off shore. K. said that he had killed a number of Swans and Cranes however, and Paloy the Flamingo

July 25 (Thurs.) Klingenberg says that Kiviuna, a man 40-45 yrs old, who went from Baillee Island in March, had gone violently crazy and had to be disarmed by his son-in-law Anatkina; also that Kutakatt had taken charge of his sister, one of Kiviuna's two wives.

Boxed some more bones today and sacked up some Canton and Bean skins in gunny sacks.

A three-masted ship, supposed to be S.S. Belvedere, Capt. Cottle, appeared in sight about five miles north of Eastend of Baillee Island, slowly going East about 10.00 a.m. She soon stopped, apparently made fast to lee of large ice, undrift and remained until Saturday, when she drifted Westward again. Nobody was able to go out as shore water here does not extend more than ¾ mile out, and there is a broad solid field of ice with high pressure ridges 2 mile off shore.

Wind strong from East (true) all day - half a gale E. Capt. W. killed one seal. Eva's aunt's pulut gave me old fire-kindler - wooden stick used with twisted string drill. (885)

July 26 (Fri.) Bright hazy sunshine at 8.00 a.m. Strong East wind (same as yesterday). Wind moderated in evening. Packing and sacking skins, etc., most of day. A few Eiders flying West, off shore. Belvedere hauled to Westward off SW sandspit in morning then back to North side of Baillee Island and made fast to ice pack in evening. Very few fish caught today.

July 27. (Sat.) Cloudy foggy morning. Light NE wind. Whaleboat from S.S. Belvidere with Mr. Seymour came to village. Rec'd letter from Mr. Stefansson, dated April 29 stating that all was well with him and that he was about to start to Cape Smythe. Sailed over to "Belvidere" at SW sandspit, with Klugenberg and Jacobsen. Made arrangements with Capt. Cottle to take me south of the country with my stuff. Clear in afternoon and sunny. Fog came in from NE about 11:30 p.m. Started back to Bathurst sandspit about 11 p.m. in "Rosie H." dinghy with Jim Hill and Jo Bernard — a straight pull to windward and against current.

July 28. (Sun.) Thick fog until about 5:00 a.m. Very light air from NE in early morning, freshening a little during forenoon. Rowed through passage between Baillie Island and Little Baillie Island about 1:00 a.m. Kept straight course until we approached shoal water on east side of channel, then turned a little to westward, keeping in about one fathom of water until we struck "Rosie H." about 3:00 a.m. Klugenberg arrived about half an hour later. Other boats left Belvidere at same time as we did and did not get home about 5:00 a.m. and Ikavinuk about 6:00 a.m. All the whaleboats had beat around Little Baillie Island.

July 28. (Sun.) As Captain Cottle had advised me to get my stuff on board while opportunity offered and ship was at Bernice, waiting for ice to open up. I packed up gear, leaving tent etc. with Ilavinirk. Ilavinirk had got his boat brought from Herschell Island by Capt. Cottle and took one boatload & Belcher's for me. Capt. Wolki also went over to ship and took remainder of stuff in his boat. Reached ship a little before noon and put stuff on board — 67 parcels stored below in storeroom, 5 Caribou skulls (6 pieces, hung on deck underneath spanboat, four or five pieces (sleeping gear, tools, clothing, etc., left above. Arranged later to sleep on whalebone pile in storeroom — a $1/50 cot bed.

Settled with Ilavinirk as follows:
$167.00 due for past year's services. Paid him in goods bought from Capt. Cottle $128.00
Cash $38.00
$167.00

1 box 20 lb. black tobacco	$20.00
2 tins molasses	2.00
5 boxes .45-70 Cart.	7.50
10 " .44 "	15.00
1 enamel pan	1.00
5 pocket knives	4.50
1 axe handle	50
60 lbs. tea.	30.00
spy glass	10.00
2 sacks flour	10.00
.44 rifle	20.00
Cut tobacco	5.00
½ dog butcher knives.	3.00
	$128.00

[Aug. 17 — Pd. Ilavinirk $33.00 additional to be deducted from $400.00 due him (See Jewel. entry). Bal. due $367.00 to be paid next year.]

July 28 (Sun.). Late in afternoon Belorder steamed out around north side of Baillie Island and bumped and dodged her way through masses of broken, loose ice until about 8 pm., and then made fast to a large floe.

July 29 (Mon.). Foggy until about noon. Steamed ahead in morning, and in less than half an hour came out into open ocean, which fog last night precluded us from seeing. Steamed until afternoon to SW side of Nelson Head, Banks Land. Clear in afternoon and evening, but cloudy. Shortly after stopping engines whale was sighted about 7 pm. Second rising about 20 min. after. Next rising about 8 min. later. Whale "breached" two or three times, rose up thrusting head and part of body up into nearly vertical position above water. Whale steadily forged ahead to westward, occasionally showing tips of head and back. Wm. Moody's boat followed astern and struck whale. Whale sank, but was raised by men of two boats. — Killed in 35 min. after being sighted. Ship came along side of whale, cutting falls lowered, and upper jaw & head cut off with cutting spades and axes and hoisted on deck. Longest bone measured 10 ft. 6 inches. Some "blackskin" and meat was also taken. I was unable to take pictures as it was too dark and cloudy 9-11 pm during cutting in operations.

Bowhead Whale

July 30 (Tues). Foggy morning. Light rain. Light northerly wind. In afternoon, bright hazy sun. Off southwest end of Banks Land at 3 p.m. about 8 mi. from shore. Between Nelson Head and Cape Lambton. Highest part of land is Durham Heights indicated by two hummocks back of Nelson Head. Sea cliffs vertical precipices becoming lower to westward. Cape Lambton being on a point of low land. From top of cliffs steep, rocky, rounded hills, with about a 45° trend, slope back to top of island. Numerous patches of snow in gullies on upper slopes. Looking to east (SE), cliffs are broken with second tier showing a sharp pinnacle rock on its verge which looks like silhouette of a man standing on brink.

Sea cliffs — lower layer light yellowish or buffy in places with narrow red and yellow strata alternating. Middle strata (in some places where gullies have cut down this is upper strata) black rock standing in vertical pillars like the basaltic columnar rock of Coronation Gulf. Strata dip towards southeast. Black strata faulted some miles SE of Cape Lambton. Buffy colored stratum immediately above the black is apparently sand or finely grained sandstone which has disintegrated and flowed or sifted over the ditches and gullies on upper side of black rock, giving appearance of light colored wedges driven into black rock. Some of the sand forms points rising from talus at foot of cliff. Saw one jokulegen valleyfall coming down face of cliff.

July 30 (Tues.) There is a narrow fringe of shore ice all along the southern end of Banks Land (no land ice), while the whole ocean outside is perfectly clear of ice, nearly to Capes Bathurst and Parry

Whale food according to Capt Cottle, Mogg, Etal. Bowhead feeds only on "slick" on surface animalculae which are visible to naked eye. Bowhead pushes ahead until a quantity are collected, then strains out water through the fringed "bone" of mouth. Sperm Whale feeds principally on octopus giant squid, and often throws up contents of stomach when struck - tentacles of squid many feet in length. Bowhead not known to throw up stomach contents

Banks Land & W Shore

Whale migrations - After whales pass Point Barrow in April and May little is known of their movements. Whales are apt to be met with anywhere in Amundsen Gulf in July and August, as early as they can get out of winter quarters. In August whales in this region south of Banks Land are usually going west. Following them up Whalers usually find them most abundant on "off-shore" ground around Capes Dalhousie and Brown, where water is rather shoal. Whales often remain here for some time, and if scared away soon come back. Whales killed here sometimes have mud on their backs, as if they had been rolling on mud bottom - i.e. Whales killed and not sinking. A dead whale which sinks to bottom often brings up mud as a matter of course. No parasites are found on Bowhead whales, like the

July 30 (Tues.).

Bowhead Whale

barnacles and lice found on Right Whales and Hump-back Whales. Whalers think that if they acquire parasites at any season these are killed by the comparatively fresh water of Arctic Ocean. Bowheads have been chased into fresh water three fathoms deep near Pullen Islands, off mouth of Mackenzie River.

Right Whales are not found in Arctic Ocean. Capt. Cottle says that he thinks there are two varieties of Bowhead, one known as "Pogy" being smaller with smaller head and shorter whalebone.

A few Short-billed Gulls follow ship all the day. A few Seals seen today. Saw a small flock of Geese (sp.?) going west.

(463) 2h6m P.M. W. of Nelson Head, looking N. 6.8 - 1/50 - B.H.S. 4pm

(464) 2h7m P.M. do. looking SE. 6.8 - 1/100 - B.H.S. 4pm

July 31. (Wed.) Clear, wind SE. Cruised around off south end of Banks Land. Saw one Seal about half way between Nelson Head and Cape Parry. A few Killaluak (White Whales) seen going west. One large one passed alongside just under surface about 20 yds. from the ship. Changed course to East, and passed Cape Collinson and DeSalis Bay. The highland at Nelson Head slopes down to Eastward until land nearly dips to horizon back of DeSalis Bay, looking from 15 min. to 40 min. then rises again towards Cape Cantwell. Sky line irregular looking up westside of Prince of Wales Strait, several points appearing in sight NE of Cape Cantwell. The low land back of DeSalis Bay makes a depression running nearly across to Thesiger Bay

White Whale

July 31 (Wed.) on south west side of Banks Land. Capt. Cottle says that there is a gentle slope near Cape Collinson in front of high land, and at one time a boats crew from ship —— Killed six Caribou there. Hollaston Land west part of Victoria Land sighted in evening. Wind shifting. Little ship veered around to westward again

Aug. 1. (Thurs.) Cloudy. Rather warm. Foggy at times. Cruising back and forth working up within sight of Whale Bluff.

Aug. 2. (Fri.) Brig't hazy sunshine during most of day. Warm, about 46° + Fahr. All day. Fog dense in evening. Cruised towards Cape Parry and back again towards Cape Bathurst. Passed through many patches of "slick", whalefood, but saw no signs of whales. Whales are apt to be seen when "slick" is plentiful, although pessimists growl and say the "slick" is abundant because there are no whales to eat it. Considerable broken ice — pretty dense masses, inshore off Whale Bluff, and smoking mountains apparently extending along coast to Bathurst. Saw a few Seals today. A small flock of Eiders (about half ♂, and half ♀'s) going west.

Aug. 3 (Sat.) Dense fog in morning. Everything outside as wet as if blown rain. Air cleared during forenoon, but sky still cloudy

Aug 2 (Sat.). Pretty thick fog in morning. Strong head wind and rather heavy sea running. Cruised on northeasterly course. Rain coming down quite heavily for two or three hours before midnight.

Aug. 4 (Sun.). Foggy and still raining at 6.00 a.m. but wind lowered. Pretty heavy swell and some of crew seasick. Cruising somewhere between mouth of Horton River and Cape Parry. 15 whales seen during day. Fog had dissipated by noon. A few floes seen in afternoon. Dense fog again in evening, and calm. Ship rolling in long, oily swell.

Aug. 5 (Mon.). Dense fog all forenoon. Calm. Slight rolling swell. About 2.30 p.m. Capt. Cottle decided to steam ahead, shaping course to strike green water north of Cape Parry. About 5.30 p.m. while steaming slowly ahead, felt and heard slight shock. Officers at the supper table thought it was merely an ice cake struck, until a commotion was made on deck. The ship was hard aground with bowsprit pointing at a vertical rock cliff less than a ship length away, but scarcely visible thro fog. Soundings showed nearly three fathoms in nearly all places around the ship. Bottom smooth rock, apparently silicified limestone in layers like the face of the bluff, with small boulders scattered here and there. Tried to haul ship off by taking kedge anchor astern in whaleboat. Anchor would

Aug. 5 (Mon.). ship off the smooth rock bottom when strain was put on hawser. Tried pulling from both bow and stern, and ship slewing around in either direction, and also rocked fore and aft, being held as if on a pivot by a lay rock or narrow ledge amidships. Ship rolled readily by assembling crew amidships, and running back and forth in chase from one side to the other. but ship stuck fast; tide fell a little also. Dense fog all night.

Aug. 6 (Tues.). Dense fog until about 6 a.m. Very light air from NW. All hands working all night, shifting cargo and working repeated trials with kedge anchor, hawser on winch with donkey engine. Took wood from forehold (mostly starboard) and piled it on prop, mostly on port side (25 - 30 cords), which brought the vessel down aft with considerable list to port. Kedge taken in and big anchor put astern with two whaleboats lashed together. Twelve casks (about 96 bbls.) of fresh water were pumped out from forward, lightening ship still more. Finally, the tide rose about 2 feet, and the ship was dragged off about 8 a.m. Fog lifting in morning showed that we were on NW. side of Little South Island. The fog had prevented us from seeing more than about a hundred yards of face of precipitous cliff.

Aug. 6. (Tues.) Cliffs - gray stratified limestone (3) at base - about middle a greenish irregular stratum with ferruginous stains running down its face in places. Upper portion rough jagged face, with cleavage planes in all directions. Surface of island rather barren, with blocks of rock scattered here and there. Some short grass. On S & SW corner of island a hazy hook-shaped sandspit nearly encloses a small lagoon, apparently a good boat harbor; considerable driftwood on spit. Wood also visible in two little coves on north side of Big Booth Island.

Photos:

* 7. Northwest side of Little Booth Isl. from bow of S.S Belvedere about 50 yds. distance (after ship had moved out a little). 6.8 - 1/100 - Dull hazy sun. 8:50 a.m.

(465) * 8. Birds eye view Little Booth Isl. From Crow's nest of S.S Belvedere looking SE. towards Big Booth Isl. 6.8 - 1/100 - D.H.S. 8 or am

(466) * 9. do to East. 6.8 - 1/100 - D.H.S. 8 am

(467) * 10. Wood stacked on poop of Belvedere to lighten her forward. From after end of wheel-house. 6.8 - 1/50 - Bright Cloudy. 8 30 am.

(468) Steamed to NE for about three hours then made sail. Light

Aug. 6. (Tues.). NE or Easterly breeze. Air fairly clear until about 2 p.m. when fog came up again. Cruised in afternoon Northwesterly, towards Cape Lambton. Banks Land, Capt. Cottle intending to work up around Cape Kellett if wind holds right. Lightening the ship this morning made first water supply rather short. About 300 bbls. had been taken on in July, from top of large ice cake.

Aug. 7. (Wed.) Cruised along our northwestward course from Cape Parry, all night. Light NE wind. Sky cleared in morning, and sun shone brightly most of day. At 7 a.m. we were 20-25 miles S of Banks Land, between Cape Lambton and Cape Kellett. Patches of snow still visible on uplands. Land is low back of the inlet Bay sloping down from Cape Lambton and rising again back of Cape Kellett. Saw a few Seals Short billed and Glaucous Gulls, and one flock of female Eiders. A few small cakes of floating ice seen. Wind from west in afternoon.

Aug. 8. (Thurs.) Drifted and sailed to westward during night. Cloudy morning. Slight fog on horizon. Clear p.m. Dense fog came in again about 5 p.m. Cruised along side of pack of heavy ice most of day. Two or three Seals and a few Short billed and Glaucous Gulls seen. Dense fog all night, and ship drifting.

Aug 9. (Fri.) Dense fog until about 7:00 a.m., when fog lifted a little so that we could see about half a mile from ship. Sea shimmy freely during forenoon.

Aug. 10. (Sat.). Cloudy most of day. Passed along outside of Baillie Island in evening. Ship of heavy ice still in place outside of sandspit. "Roosevelt" and "Freddy Bear" still at anchor inside sandspit. Cruised to westward all night.

Aug. 11. (Sun.). Bright sunshine most of day. Light NE breeze. Cruising on off shore ground between Cape Bloom and Dalhousie 20-30 miles off shore. Whale raised about noon and five boats lowered. The whale, a rather large male was soon killed, struck by two boats with very little flurry, and ship soon came alongside. Whale was made fast by rope around flukes (tail) and another around one fin. Before cutting in operations were started another whale, a female was raised and boats lowered at once. This whale caused more excitement; when struck, she "breached" nearly out of water, then towed boat to some distance, until struck by another boat. Ship was brought up, and both whales made fast alongside, and cutting in operations commenced. Cutting fall was lowered on starboard

Breached

Aug. 11. (Sun.)

side, blanket piece removed, and "head" cut off and hoisted on deck. Only the inferior upper portion of head was removed; cut through just posterior to spout-holes with spades and axe and the upper maxillary with its whalebone hoisted on deck, and bone cut off later. The first whale (♂) had bone measuring 10 ft. 9 in; weighing some 2000 lb. Body of whale (of which) jet black much broken by scars, long gash-like stripes, and small irregular blotches, principally on ventral surface. The ♀ whale was smaller, with shorter bone, about 1500-1600 lb.

Boardman

(469) #1. Whaleboats leaving S.S. Belvedere. 6.8 - 1/100 - B.S. 12 M.

(470) #2. Whale's head alongside ship, showing Eye and angle of mouth. 6.8 - 1/100 - B.S. 12 M.

(471) #3. Whaleboat returning to ship. 8 - 1/100 - B.S. 5:00 p.m.

(472) #4. Two whales alongside ship. 6.8 - 1/100 - B.S. 5:00 p.m.

(473) #5. Cutting off head. 8 - 1/100 - D.H.S. 7:45 p.m.

(474) #6. Head being hoisted on deck (from above. 6.8 - 1/50 - D.S. 8:30 p.m.

(475) #7. do. from deck.

(476) #8. Head. D.S. 8 45/60 p.m. 8 - 1/25

(477) #9. Blanket piece (blackskin and blubber @ 15 ft. 6.8 - 1/100 - D.H.S. 8:45 p.m.

Aug. 12 (Mon.) Clear. Strong E. wind. Cruised to NE again. Whale raised at 2 pm and killed in one hour. When first struck, whale ran rapidly to windward towing boat behind. spouted clear scarlet lines. Second boat struck, and whale began spouting blood, thrashed around quite a bit, running in different directions, occasionally breaking water near boats.

Boat keep.

(478) #10. Cutting off Whale's head.
8 - 1/100 B.S. 6:30 pm.

(479) #1. Whale's head.
8 - 100 B.S. 6:30 pm

(480) #2. do. on deck.

Most of the blubber was taken from the Whales yesterday and stored in blubber room, to await trying-out operations. Thick fog set in about 11 pm

Aug. 13 (Tues.) Fog until 4:00 a.m. Whale raised in morning, but fog set in again and boats did not lower. Fog again until 10:00 am. Another Whale raised and boats lowered from 10:45 to 5 pm; Whale was very however, and nobody came near enough to strike. The fact Whale was seen only once or twice from boats, although visible from mast head. Heavy sea running.

Boat keep.

Strong NE wind

Aug. 14 (Wed.) Clear. Strong Easterly wind. Ship drifting to Westward. Two or three whales seen but boats did not lower as whales were too far to windward. Men engaged in mincing blubber and trying it out.

Aug. 15 (Thurs.) Pretty strong N.E. wind. Dull hazy sun. Ship drifting to Eastward - about off McKinley Bay. Whales raised to windward, but boats did not lower as sea was too rough for boating up any distance. Soundings for last two days from 24 to 14 fathoms. Green water, "pea-soup grounds". Steamed to Eastward and anchored two or three miles off Cape Brown. Landmarks - several rather high, rounded knolls, "pingok" (as at St. Ethwin - Foxe Point, etc).

Aug. 16 (Fri.) Cloudy. Wind N.E. Cruised to Northward Weather hazy so that most of time we could not see more than a mile or so. Capt. Cottle decided to steam East to Baillie Island - started 8 p.m.

Aug. 17. (Sat.) Off Baillie Island at 5:30 a.m. Fog thick, but lightened at intervals. Very light Westerly wind, but very heavy swell running. Anchored about two miles outside sandspit, and could walk ashore Yesterday and day before there had been a heavy N.E. gale here; and all day today a heavy surf was beating on beach in great combers - Capt. Cottle says the heaviest surf he has seen in Arctic Ocean.

Aug. 17. (Sat.) The "Eloria" Dutch Harbor" two-masted gasoline schooner, Capt. Theodore Pedersen had come in about two hours before us. The Eloria had been here first Aug. Reports no ice East of Flaxman Island, and sea clear South of Point Barrow. The Eloria had cruised to Smoking Pit, and up near Banks Land, but had seen only one whale.

Bot sent underwear for Ikok.

Sabine Gulls and Arctic Terns were numerous on sandspit, so I borrowed Palaijuk's 20-ga shotgun and shot a few specimens. These were more young Sabine Gulls than old ones (gray mottled plumage), although full grown and active on the wing. However, both Gulls and Terns spend most of the time huddled up stupidly in little bunches on the sandspit. Saw a few Red Phalaropes (fall plumage) and shot one. Two or three Turnstones (fall plumage) were also seen. Occasional flocks of Eider Ducks going west.

Ikok died this morning (a Baillie Island man) about 35-40 years of age. He had been seriously ill for only a day or two, although the head had been trouble for a month or two. "Shag" (a George's a Hooper Island Eskimo, went ashore from Belvedere and through an intermediary proposed at once to the widow of Ikok but was refused.

Aug. 18. (Sun.) Dull hazy morning. Thick fog set in about noon, clearing a little at intervals. Shower of rain in afternoon with a few light thunder claps. Fog lifted a little in evening so that we could see a mile or two. Left Baillie Island about 2^30 a.m. cruising N. northward. Light NE wind.

Before leaving Baillie Island, bought a small Polar Bear skin from Capt. Wolki for $8.^00; also a Cub Brown Bear with hind paws missing for $2.^00. Traded Capt. Bernard my Colt .45. revolver for two fox skins.

Aug. 19. (Mon.) Thick foggy morning. No wind. Drifting all forenoon. Fog raised in afternoon. Whale seen about one-fourth to one half mile from ship, moving slowly along, showing a long black streak of its back. Each man watched it for some time thinking it was a flock of ducks. Whale spouted three or four times later, then sounded finally and disappeared. Boats lowered, but thick fog very soon came again and whale was not seen again. Wet, rainy evening.

Aug. 20 (Tues.) Foggy all day. Ship drifting. Very light easterly wind. Occasional Seals seen.

Aug. 21. (Wed.) Cloudy forenoon. Fog limiting vision to about one-half mile. Sun visible for

Aug 21. (Wed). a little while about noon. Lat 70° 34'. somewhere north of Cape Dalhousie. Water 26 - 27 fathoms. 32 fathoms at 10 pm. Found large masses of floating ice in evening.

Aug. 22. (Thurs). Bright clear morning. Light north-Easterly wind. Foggy most of afternoon. clearing a little in evening

Aug. 23. (Fri.). Clear morning. Light northeasterly wind. Cloudy in afternoon. Thermometer has stood about +38° - 39° Fah. at all hours, day and night for about ten days. Cruising off shore somewhere north of Cape Brown and Dalhousie. A black bird flew across our stern supposed to be a "Clowbill or Murre. Mr. Nogg says that murres are common on southern part of Banks Land. Occasional small flocks of Ducks seen today, going west.

Aug. 24 (Sat.) Clear morning. Sky overcast with clouds most of day, but horizon clear. Light NE wind. 25 fath. at 12 M. Headed to SW in afternoon. One seal seen in afternoon. Cruised to westward in evening.

Aug. 25. (SUN.) Cloudy morning. Dull sunshine at intervals all day. Light NE wind. Thick fog after 9 p.m. A "pod" of five whales raised about 5.30 a.m. and five boats lowered. About 6 - 7 mi. north of Pullen Island Shoal 12 fathoms. Shoals an about 5 mi. north of Pullen Island, with one fathom water. The Whaling fleet, including Belvedere one now

Aug. 25 (Sun.) between shoals and Pullen Island, but often grounded in mud and ships of greater draft had to be tugged in [illegible] by smaller steamers.

Bowhead

Whales were restless today - in shoal water coming up frequently, at intervals of 10-15 min., and seldom spouted very many times at a rising. Some of whales were "galleyed" presumably by boat passing over them. Boats were recalled at 3h pm., but soon lowered again (about 5h pm) to chase another whale which spouted within ¼ mile of the ship. Mr Boyle's boat struck and whale towed them to windward for about an hour before others could get near enough to strike. After being struck again whale spouted every two or three minutes for half an hour or more - and in its flurries came near kicking one boat out of water. Whale was a female, length of bone about 10' 4".

Short-billed and Glaucous Gulls followed ship all day. Two Parasitic Jaegers seen at intervals; occasional Terns flying over - and a few small flocks of Dovekies. Seals fairly numerous.

Aug. 26 (Mon.) Foggy all night and until about 2h pm. Light NE wind. Cruising to westward - land (one of outlying MacKenzie Islands) sighted from masthead about 2h 10m pm. Steamed to westward during the night - towards King Point, with intention of loading up with driftwood.

Aug. 27. (Tues.) Foggy until about 6h 4m. Then clear, bright sunshine. Very light NE wind. Anchored off King Point about 5h 4m. Later moved about two miles further west and anchored about ¼ mi. off shore and boats proceeded to land with driftwood from beach. Beach covered with great windrows of spruce and cottonwood mostly.

(481) #3. Lund, 2 mi. West of King Point
8 - 1/100 - DS. 7.00 a.m.

(482) #4. Loading whaleboats with driftwood west of King Point. 8 - 1/100 - D.S. 18h 4m

(483) #5. SS. Belvedere at anchor west of King Point. 8 - 1/100 - D.S. 18h 4m

(484) #6. "Wording" on Beach west of King Pt. Sipaillisek, Tjitjet, and "Corkney" (Eskimo) 8 - 1/100 - D.S. 18h

Went ashore with shotgun. Along coast there is a ridge of rather high gravelly topped hills between King Pt. and Kay Point. Behind this ridge a broad comparatively level valley extends back (south) to the foothills about ten miles away. Marmots numerous on the hills. Saw several American Rough-legged Hawks and two or three Duck Hawks, numerous Longspurs and several Lapp Buntings. Valley between coast hills and mountains dotted with numerous lakes and ponds. Some gullies and low hillsides covered with a dense growth

Aug. 27 (Tues) of tangled, crooked, stemmed dwarf willows seldom more than knee high. Found a bunch of about a dozen Willow Ptarmigan in willow cover. Some young and some old birds. The young Ptarmigan were nearly full grown but could fly about as well as the old birds. All in full summer plumage. The Ptarmigan were rather hard to find as they crouched among the tangled grasses & under willows. I usually located them at a distance with field-glasses. When I was near than 150 yds. away the birds would stick up their heads to look around but at closer range would keep the heads lowered. Shot several in the brush, and several more on top of a rather dry mossy tundra hill. Plumage in all Stained form.

887. ♂ Lagopus Lagopus. ad.
888. ♂ " " "
889. ♀ " " "
890. ♂ " " juv.

Shot at a Rough-legged Hawk which was flying over, and wing-tipped him. He circled around a few times and came down. I went over and Hawk flew up again and escaped, as I had no more shells. Several Red Phalaropes ("Bowhead Birds" of whalers) swimming in surf near shore.

Twenty-four whaleboat loads of wood were put on board. Breeze freshened from N. and landing became difficult so ship sailed for Herschel Island, about 2 pm arriving in harbor about 6 pm.

Aug. 27 (Tues.) Police detachment now at Herschell Island Inspector Bry; Corporal Tinkey, Constables Bates and Johnson (the latter having arrived this summer from Fort Smith.

Ed. Lefingwell's schooner "Argo, Chicago" arrived here two or three days ago; "Scotty McIntyre" master; crew consists of Ned Airey and family (wife, son Gallagher and small children). Argo is provisioned for three years. McIntyre says he shall try to spend next winter in DeSalis Bay, Southeast end of Banks Land. or in Walker Bay, Victoria Land, where McIntyre wintered 1907-1908, as mate of schooner "Olga".

Mr. W. Henry Fry, Church of England missionary, sailed East from Herschell Island some time ago in Mr. Whittakers sloop, with five native whaleboats intending to winter in Coronation Gulf. Natives with him are Tirktik, "Jimmy" (Memorianna), Kerut.

"Capt." Chris. Stein came in some time ago with a gasoline schooner from Seattle, and two Scandinavians for crew; expected to go East of Mackenzie.

The engine of "Argo" is out of order and Capt. McIntyre is tinkering it and learning his engine and gasoline (or distillate at Herschell Island).

Received a few letters here, which had come via Dawson and winter mail

Aug. 27 Tues. via Mackenzie River this summer; also a letter from Stefansson dated Point Barrow July 27th. stating that he had arrived at Point Barrow safely June 13th and expected to go down on U.S.S.P. Cutter "Bear" very soon. (Letter brought over by Capt. Stein)

Aug. 28 Wed. Clear all day. Light NE wind. Warm 46° F. At Herschell Island all day. Belvedere loading on empty casks and provisions. Got my box of papers, notes and negatives left in charge of R.N.W.M.P. in August, 1904. My steamer trunk, left here at same time containing clothing and books, is lost. Things here in confusion here after the old Police detachment died two years ago, and the present officers knew nothing about property left here. It is possible that the late Constable Sam Carter shipped my trunk to New York in 1906 with Lieut. Bridfist on S.S. Herman.

Took pictures as follow.

(485) # 7. "Argo: Chicago", E. de L. Leffingwell's Schr. 8-1/2 - B.S. 12 M. Herschell Island

(486) # 8. Sipadaejik (Herschell Isl. native, about 30 yrs. old). 8-1/2 - B.S. 12 M.

Police gave me a skin of Musk-ox skinned by Sergt. Selig. R.N.W.M.P. two or three years ago - taken at Herschell Island.

Natives here are catching a good many fish - mostly Salmon, inkit (Ekaldjikpik), and a few Whitefish (Tattlak)

Aug. 28. (Wed). The surveyors who have been surveying the international boundary between Alaska and Canada and the Coast eastward from Demarcation Point, have completed their summer's work and gone back across the mountains, expecting to catch the last Yukon River steamers. The surveying parties have been using horses to do their packing.

Aug. 29. (Thurs.). Clear morning. Light SW wind. Steamed out from Herschell Island 4:15 a.m. and anchored off Stokes Point to take on wood. Saw flock of White-winged Scoters going west, and Black Brant going east. Went ashore hunting for three hours. Ground back of Stokes Point low swampy tundra, numerous small lakes, grass pretty thick, and very few small willows. Saw eight or ten Willow Ptarmigan and shot two. The ground was unfavorable for hunting them — flat open country with no hillow gullies to attract them, and the birds crouched very close in the grass, and could not be seen until almost stepped on. Several Red-throated Loons seen in ponds and on wing; also two or three Yellow-billed Loons flying over. Long-spurs numerous everywhere. A small flock of Plovers (Am. Golden or Black-bellied?) seen, and two or three Pectoral Sandpipers — shot one of latter.

Aug. 29. (Th. 15). Murnots very abundant on clayey earth ridge along coast. A few Phalaropes (fall plumage) swimming in the surf. Nine boat loads of wood were put on board before dinner but wind increased so we had to get out and steam back to Herschell Island, where we arrived 6½ p.m. Many fish were caught at Herschell Island today - mostly Salmon Trout. Salted specimens of Salmon Trout (#891) and Whitefish (#892).

Steamed out to eastward again at 10:30 p.m. Night pretty dark, but full moon.

Bought goods from Capt. Cottle to settle part of Stefansson's account with Baring & Clark - goods stored in warehouse of R.N.W.M.P. to be delivered to P. on return of P. and Nirgakshak from their Expedition west to Kugurok River: Goods as follow:

Flour, 6 sacks (300 lbs.)
tea 20 lbs.
1 box Black tobacco (12 lbs).
1 " Chew. " (12 lbs).
sugar, 2 boxes.
Calico 25 yds.
Soap 3 boxes
thread 3 spools.
12 boxes hard bread (300 lbs.)

Aug. 30. (Fri.) Clear for a little while after midnight. Thick fog set in early in the morning and hung on all day. Daylight strong SW wind in forenoon, light wind in afternoon. Two Whales broke water within 200 yds. of ship in morning, but fog was too dense to lower boats. Another Whale heard spouting just ahead of ship about 8.00 p.m. in dense fog. Sounded like muffled exhaust steam.

Aug. 31. (Sat.) Clear morning. Brisk NE wind, which gradually increased during the day, until a pretty heavy sea was running by evening. Three Whales raised about 8.30 a.m. and all boats lowered. Whale killed by Mr. Tom Ansley's boat about 1 p.m. almost instantly killed by a single bomb from darting gun. Four or five Whales seen during the day, and the remaining boats chased Whales for some time after the first one was killed. A Whale raised flukes within 200 yds. of ship, just as steam was started to bring ship up to dead Whale, and no more were seen. After a Whale is struck by a bomb no other Whale is seen (usually) in sight for an hour or more; and Whales are very seldom seen when ship is steaming - the vibration of the propeller seems to scare them away.

Bowhead

Aug. 31. (Sat.)

Whale killed today was a rather small cow, two about nine ft long. Cut out one eye (with lids), and a section from tip of snout. Anterior portion of snout had a few short bristly white hairs growing out of tiny pores — average length of hair ¼ in, although one was nearly ¾ in. long.

In the forenoon, while the boats were lowered for whales a female Wilson Warbler (Black-capped Flycatching Warbler, Sylvania pusilla) remained on the ship for an hour or two flitting about among the rigging and running gear, from one end of ship to the other, never going higher than ten feet above the deck. She made several starts to fly away, but as wind was strong, sea rough, and no land in sight, always came back. Ship W. J. Pullen [illegible] found E. of Sabine Point in about N. Latitude 69° 50' * Long. W. 167° 15'. Watched the bird at distances less than ten feet for a long time, but could not catch her, and shooting is not permissable when whales are around.

N. 69° 50'
W. 167° 15'

Sept. 1. (Sun.)

Dull cloudy day. light NE wind. Low fog banks most of day prevented seeing for any distance. About 6 a.m. whale raised about 2½ miles ahead. Whale spouted and turned flukes within ½ mile

Sept. 1. (Sun.) — left ship about 7.00 p.m. and found boats lowered — pretty heavy sea running. Before boats were ready whale turned flukes again about 2 rods astern of ship — going rapidly to windward. Boats followed and when they were some two miles away, a whale suddenly "breached" — coming straight up out of water — head, fins and half the body out of water within 300 yds of starboard beam. The whale hit this feat on four times at intervals of about two minutes — then forged ahead slowly back just showing out of water, spouting occasionally. Then he became more active and — leaped forward out of water — the forward part of body well up, and fins elevated — tail just dragging in water, making a tremendous splash as his belly struck the water again. Whale jumped out of water several times, and thrust head up several times — turned flukes three times — and disappeared immediately — remaining in about the same place for some fifteen minutes. The remaining boat, "ship's chance" was lowered, but at head rising whale was a mile to windward. Boats were obliged to come on board about 9.30 p.m. on account of darkness.

Bowhead.

Sept. 2. (Mon). — Cloudy morning; occasional dull glimpses of sun through clouds. Very light E. wind & numerous patches of "slick" (whale feed) in sight, and strong smell of "whale feed" in air. Seals numerous. Finished tagging out last whale.

Sept. 3. (Tues.) Cloudy all day. Strong NW wind. Boats lowered and chasing whales all day. Schr. Gloria in sight all day and came alongside in evening. Capt. H. Pedersen, Mr. Schroder and Mr. Ellerson came aboard. Gloria has caught three whales — one 10½ ft., others about 9½ ft bone. Gloria cruised off to windward tonight. All her whales have been caught closer inshore than ours in green water. Numbers of seals seen today.

Bowhead

Sept. 4. (Wed.) Clear all day. Strong NW wind. Whale raised about 6:00 a.m. and boats lowered until 9:00 a.m. lowered again at 11:00 a.m. and whale struck by Mr. Hoggs boat and later by Ansley's. Men said that when whale was first struck two bombs went off almost simultaneously; whale's body jerked above, then he took out 170 fathoms of line before diving. 3 whale, bone about 10 ft. 3 in. weight (gross) [illegible]. Boats lowered for another whale from 5 to 7 p.m. but whales kept moving about so fast that boats could not strike. Several Arctic Terns around ship all day. One alighted on board and was killed by pug.

Bowhead

Sept. 5. (Thurs.) Cloudy morning. Slight rain. Wind NE. Boats lowered about 5:00 a.m. Several whales seen and boats chasing all day without success.

Bowhead

Sept. 6 (Fri.). Cloudy day, but no fog. Light NE wind. Whales sighted — and boats lowered about 4.30 a.m. Mr. Linsley's boat struck Whale (♀, about 10 ft. bone) at 8.30 a.m. A pair of whales was seen playing near together — and boat ran between the two and struck one. Whalebone — 7 lbs. whale almost white, black on outer edge, and black fringe. In sight of mountains — back of Satmi Point in morning. In afternoon steamed up and reached Herschel Island about 9.00 p.m. Elvira in harbor.

Sept. 7 (Sat.). Cloudy all day. Strong NW (true) wind: heavy sea. In harbor all day, and did not leave ship. Try-works running full blast, and as ship heads to wind all the blubber greasy smoke comes aft and coats everything.

Sept. 8 (Sun.). Cloudy. NW wind. Went on board Schr. Elvira. "Elvira" had killed two more whales since we saw her last. — total five whales. Capt. Theodore Pedersen had a narrow escape — his whaleboat (with 4 in. keel) ran over whale's back, and whale raised up when struck capsizing boat and throwing crew into water. In going overboard Capt. Pedersen got a fight of whalebone around his leg, but fortunately the whale was almost instantly killed and he succeeded in freeing himself. The boat's crew were in the water for a long time before the other boats could get up to windward and pick them up.

Sept. 8 (Sun.) Bot. pair of boots from Capt Pedersen for $3.00. Wind ashore - and had dinner at R.N.W.M.P. Barracks, with Inspector Beyts and Constable Bates. Elwood sailed in evening.

Sept. 9. (Mon.) Clear in morning. Wind lowered considerably in morning. Four whaleboats and Kunak's schooner sailed for Mackenzie River. Belvidere got under way at 10:00 a.m., trying out oil being finished. Took picture of village as ship was passing end of sandspit.

(488) * In Herschell Island Harbor. 8-to-D.S. 10:00 a.m. Light northeasterly wind in evening. Anchored about half way between Kay Point and King Point, and put in board nine bolltrads of wood before dark. Foggy late in evening.

Sept. 10. (Tues.) Breeze freshened in morning and hauled more to northward making landing rough. Six boat loads were put on by 8:00 a.m. when ship was obliged to stand off shore. Cruised to westward for rest of day. Had fog most of the time. Two flocks of Black Brant seen going west in the morning, and a few loons during the day.

Sept. 11. (Wed.) Brisk NE wind in morning increasing during the day. Herschell Island was passed very early in the morning. Whales raised about twenty miles west of Herschell Island 8:00 a.m. and three boats lowered, until 11 a.m. but without success. Schr. Lucia seen in evening.

Boundary

Sept. 12. (Thurs.) Strong NW wind all day, with thick fog. Cruising to westward all day. A whale seen spouting in wake of ship last night about 10.30 p.m. less than a ships' length away. Another whale in wake of ship this morning, but fog was too thick to lower. Hove to about 8 p.m. that evening. — 12 fathoms of water; supposed to be about off Baxman Island. Steaming on reefing all day. +3105 — the first freezing since July.

Sept. 13. (Fri.) Calm at 6.30 a.m. Slight fog. Clear sunshine during forenoon. Flock of Old-squaws seen going west. Very light wind (NW), and ship making little headway. Foggy in evening. H 35° F. at 10 p.m.

Sept. 14. (Sat.) Clear horizon in morning. Small whale raised and boats lowered 6.00 to 9.00 a.m. Whale kept dodging back and forth within a mile of ship, rising at about 25-min. intervals and spouting only a few times before "turning flukes." Land supposed to be Pingot, the easternmost of Jones Islands sighted in morning. Breeze increased during day (NW) and pretty heavy sea running. Cruised to westward all day. Occasional loons (Red-throated?) seen flying near ship; a few Old-squaws and several flocks of Phalaropes.

Sept. 15. (Sun.) Cloudy all day; with some drizzling rain. Calm in forenoon. Light northerly breeze in afternoon. Schooner sighted in evening, when fog lifted a little.

Bowhead.

Sept. 16. (Mon.). Cloudy day. A few glimpses of sun around noon. Brisk westerly wind. Small flurry of snow in evening. Two or three whales seen and one killed by Mr. Chas. Walker's boat - ♀, bone about 9' 10". Three Fabric Gulls seen in afternoon. Lonns numerous, flying about all day, and often alighting in water near ship. Seals rather common. Occasional Gulls seen, also Phalaropes.

Bowhead

Sept. 17. (Tues.). Calm in early morning. Light NW breeze sprang up about 9:30 a.m. and blew all day. Decks covered with about an inch of snow in morning. Occasional snow flurries in afternoon. - Thermometer - +27° at 8 a.m. - +26° at 7 p.m. Several whales seen in early morning, mostly small whales and not moving much. Mr. Seymour's boat killed one ♀, about 9' bone. Mr. Walker's boat was nearly on to one at same time, about ½ mile away, but when the first whale was struck the other immediately sunk, without turning flukes. Whale was made fast to ship and head cut off. Several more whales seen in afternoon and chased unsuccessfully. Water 8½ fathoms when whale was killed. Whale had considerable gray mud on head. No trace of parasites or barnacles on this whale or any others I have seen. Not any trace of whale-food in whalebone hairs in mouth. The whales are too large to make into carcass to examine stomach.

Bowhead.

Sept. 18. (Wed.) Cloudy morning. +30° at 7:30 a.m. Snow-squall at 8:30 a.m. Land sighted in morning - supposed to be Pitt Point. Foggy most of day. Wind SW.

Sept. 19 (Thurs.) Sky cleared somewhat today. Light SW wind. Cruised to Northeastward all night. Boats lowered in forenoon - three Whales seen, and one finally killed by Mr. Linsley's boat - 10½ ft. bone. Schr. Eloria in sight all day, and crossed our stern in morning - had killed two good Whales today - 7 and 10 ft. bone - a total of nine Whales for the schooner. A few Gulls around ship all day, and a few Phalaropes seen. A large scar (3 ft.) on side of head; also front point unhealed.

Boatsteer.

Sept. 20. (Fri.) Morning quite clear. Light SW wind. Wind dropped during middle of day, and shifted up from NE in afternoon. Schr. Eloria seen in morning and killed one Whale, then drifted out of sight. We are somewhere between Smith Bay and Colville. Boats lowered at 6:15 a.m. and Whale in sight at intervals all day, but wind was too light to Chase successfully. Large flocks of Black Birds (Murres?) seen going West. Jones, Gulls, Phalaropes, one Sabine Gull.

Boatsteer.

Whale stayed up only long enough for a few ~~spouts~~ and every boat came one or more times almost within striking distance, but at the last minute the Whale usually "rounded up" his back and sank like a stone without turning flukes. Once when boat was approaching head on the men said that Whale backed off suddenly,

Boatsteer.

Sept. 20. (Fri.) Bowhead

Lit a steamboat reversing engines. Then swerved suddenly to out side and dived. At any rate the whale did not appear to "gallegod" by nearness of boats, and did not make off even after three or four ineffectual darts had been made at him from boats

Sept. 21. (Sat.) Cloudy and foggy all day. Wind South easterly.

Sept. 22. (Sun.) Bowhead

Cloudy morning. Light SE wind, which kept increasing until about noon then lowered a little towards evening. Whale "raised" early in morning, and boats lowered about 7:30 a.m. The boats had scarcely left the ship when they were hidden by a blinding snow squall. Squall soon passed over, but fog on was foggy all day, with snow and misty rain at intervals. Whale finally struck by Mr. Seymour's boat - although we could not see much of operation from ship. Whale had about nine foot bone. Blubber taken. Try-works had just been started up to try out blubber from last two whales. Saw female Spectacled Eider with 2 young ones. Left ship for ice about 4 p.m. also Sabine Gulls.

Sept. 23. (Mon.) Cloudy morning. Light SE wind. Sent out for a whale in afternoon. Cruising to westward again. We had gone East to about 150° West. Saw Sabine Gulls, Phalaropes, large Gull (Glaucous), a few Ducks going West

Sept. 24 (Tues). Slightly cloudy morning. No fog. Light SE wind. Last night about dusk I saw a small bird flitting across the prow of Belvedere, - only a glimpse - and could not see bird again. This morning Capt Cottle picked up a dead Ruby Crowned Kinglet on deck. Last night we were somewhere in Harrison Bay, east of Cape Halkett.

#846. 5 Regulus calendula. - At sea. Harrison Bay, Arctic Ocean, Alaska.

Sept. 25 (Wed). Cloudy morning. Foggy afternoon and evening. Cruised to northwestward during night, and started steaming in southeasterly direction in morning. Land sighted (Islands around Cape Lisburne) about 3:00 p.m. Steamed along keeping about 7 fathoms depth - Course West by South, & WNW, in afternoon and evening. The rule is to steer this course keeping 7 fathoms, until water deepens to nine fathoms, then haul around to SE. Number of Loons seen today, and a few Ducks going west.

Sept. 26 (Thurs). Foggy in early morning. Fog lifted in forenoon. Some squalls in afternoon. Anchored - made it Point Barrow in morning. Schr Gloria here - has caught twelve Whales - three Whales the last day we saw her - mostly small whales under seven foot bone. Several Whaleboats at Point Barrow, but whaling has not yet commenced, and people are

Bowhead

Sept. 26. Thurs.

mostly at the village at Cape Smyth - about five miles to southward of Barrow. "Belvedere" steamed over to Cape Smyth in morning and anchored about one-quarter-mile off shore. Went ashore and met Messrs. C.D. Brower, Jack Hadley and Fred Hobson of the Whaling Station. Rec'd note from Stefansson stating that he was about to leave Barrow on U.S.R.C. "Bear" on Aug. 13th. Went over to school house and post-office and got some mail. Postmaster said that a quantity of my mail had been returned to U.S. (although I received one package mailed in 1908). Mr. Crane is postmaster - Govt. school teacher - Supt. of Reindeer - and missionary.

Mr. E. DeKoven Leffingwell came on board ship to take passage out. He has been here for some time coming from Flaxman Island with boat. Reports that he met Mr. Harry Slade's schooner with P.H. Pelham and Tom. Gordon at Thetis Islands Aug 29th going as far east as they could get. "Billy" Natkushiak had started east from Barrow with whaleboat in company with Stein - "bound for Cape Parry" according to Brower.

Large numbers of Ducks (mostly Old-squaws), some Eiders, passing the point all day. in afternoon

Sailed out & northwestward with fair wind. Full moon.

Saw a few large gulls (L. glaucus & L. barrovianus), and a few "Haglets" (Whalers' name) (= Fulmar glacialis?)

Sept. 27. (Fri.). Clear sunshine in morning for a while. Light easterly wind. Snow squalls in in evening. Large mass of ice seen about 6 p.m. (about half a mile long). Whale spouted several times about ½ mile off beam after 7.30 p.m. — too near darkness to lower boats. Two or three walrus were reported as having been seen in water in evening. One or two Fulmars (?) hung around the ship most of day.

Observation p.m. Lat. 72°. W. Long. 16½° (?)

Sept. 28. (Sat.). Cloudy morning but horizon clear. Wind Easterly. +26° at 8 a.m. Saw one Sabine gull and a Fulmar near ship in morning. Saw a walrus several times raise his head and melt out of water about 75 yds from ship — a medium sized animal — tusks not over 18 inches in length. A few minutes after saw this or perhaps another, another come up several hundred yards on larboard quarter but it did not stay up very long. +25° in afternoon. Light Easterly wind. Numerous small cakes of broken ice lifting. About half an inch of snow fell in evening.

Sept. 29. (Sun.). Cloudy all day but horizon clear. Sailed to westward all day with light Easterly breeze. A few Fulmars seen.

Sept. 30. (Mon.). Wind fairly strong Northeast. Snow squalls. About +25° — +26°F

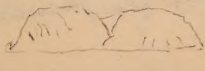
Oct. 1. (Tues.) Strong northeasterly wind — heavy sea. No sunshine. Cruising back and forth. Occasional snow squalls.

Oct. 2. (Wed.) Weather same as yesterday. No sun. Heavy sea. A little sea sick today enough to have lost some appetite.

Oct. 3. (Thurs.) Weather moderated a little. Wind NE. Sun visible at short intervals during day enough to get several observations for position. At 3 P.M. Estimated to be N. 71° 58' W. 17° 38' — about eighty miles NW of Hearld Island. Occasional Fulmars and one Cape pigeon(?) seen.

Oct. 4. (Fri.) Cloudy all day; not foggy. Strong NE wind, increasing in afternoon. Sight Hearld Island (about 3 P.M. — a faint view of rugged headland about 25 mi. to southward. About two hours before sighted Cottle had called my attention to a white "flicker" in sky in the region (near the horizon) and said that the snow covered land often loomed like this before actually in sight.

Oct. 5. (Sat.) Cloudy all day. Strong NE wind. Hung on all night and Hearld Island appeared in about the same relative position at 8 A.M. Headed SSE and were directly South (two of island at 12 M. — about 4 mi. from the island — a conspicuously flat-topped mount, apparently about one-fourth as high as long.



Oct. 5. (Sat.) Rocks come down nearly vertically to waters edge and there is apparently no landing on south side. One deep gully on this side, which I think could be climbed up. Water 30 fathoms. 7 mi. S of Herald Island. Whaler "Lucretia" ran aground on sunken rocks here in 1888 — 6 crew took to boats at once and were picked up by other vessels. Island snow-covered now — said to be about 700 ft. high. Head two exposures although light was poor.

(489) #1. Herald Island from south side 6.8 — 1/100 — Dull Cloudy 12 m.

(490) #2. do. 8 — 1/50 — D.C. 12 m.

One Walrus seen in morning and one Seal about noon. No birds.

Ran steadily on Easterly course for remainder of day.

Oct. 6. (Sun.) Cloudy all day. Strong NE wind. Heavy Sea. An occasional Fulmar and Sabine Gull seen. Occasional snow squall.

Oct. 7. (Mon.) Cloudy morning. Steam NE wind. Still on E or ESE Course. Wind lowered towards evening, and Capt. Cottle stacked & steam & NE, hoping to find ice — and whales in lee of ice. Steamed all night. Sunshine in forenoon, cloudy p.m.

Oct. 8 (Tues.) Cloudy all day. Light NE wind. Steamed North Easterly until about 3:00 pm. Wind freshened afternoon and sea became

Oct. 8. (Tues). choppy, and course was changed to E.S.E. and held that direction for afternoon and evening. Supposed to be about 100 mi. West of Point Hope.

Shortly before noon a female (or young male) Yellow-headed Blackbird (Xanthocephalus xanthocephalus) flew all around the ship. It seemed very tired, but afraid to alight as it fluttered about the rigging. It rested for a few minutes, and finally darted under the forecastle head. I tried to catch it and touched it with one hand as it came out. Watched it within ten feet for some time, and was sure of identity — rusty brown plumage, dull yellow, spiced with a little white in the throat and breast, and a little white on end of wing. Saw one pin-tailed Sparrow next day, and several Jaegers and Sabine Gulls, one Yellow-billed Loon. Saw Eiders in evening

Oct. 9. (Wed. Clear, bright morning. Sunshine all day. Strong N.W. wind all day. Early in morning sighted land (10-15 mi. away) between Cape Lisburne and Point Hope — steep high, rounded hills coming close to water's edge; land snow-covered. Land slopes down to a long low peninsula at Point Hope; high bluff at Cape Thompson. At 9:30 a.m. changed course to S. for Diomede Islands, in Bering Straits miles away. Ran all day and night before the wind, under upper topsails. Heavy sea towards evening. Saw numbers of Crowbills (murres) in vicinity

Oct. 9. (Wed.) of Point Hope. The cliffs both at Cape Lisburne and near Point Hope are famous breeding grounds for Murres &c. and large numbers of eggs are taken every summer. Occasional Fulmars and Sabine Gulls seen around the ship all day.
Running 7½ knots per hr. and current about 1 kn.

Oct. 10. (Thurs.) Clear in morning. Sky cloudy but keeps clear. At 6:40 a.m. East Cape, Siberia, on starboard bow, about 5 miles away. "False East Cape" faintly visible to NE and Diomede Islands faintly visible a little ff port bow. East Cape consists of about six high steep slightly rounded bluffs of mountains rising several hundred feet from water's edge. Saw a number of small whales, said to be humpbacks and devil-fish & killers spouting and occasionally breaking water off East Cape. Whalers say that in spring the Bowhead whales do not follow the Siberian coast further than East Cape, but strike across from there to Point Hope, Alaska. The devil-fish and humpbacks however go NW along the Siberian coast. The Siberian natives have well-equipped and prosperous whaling stations at East Cape, Indian Point and other points south of East Cape. Saw large numbers of birds in the Straits today — Murres, Fulmars, Sabine Gulls, large Glaucous gulls (L. glaucus?), and several Cormorants. Could not tell what species the Cormorants were — jet black all over.

Bowhead

Oct. 12 Thurs. Passed about half a mile west of the Big Diomede Island about noon, and made one exposure.

(491) #3. Big Diomede Island (Russian), from West. 5.8 - $\frac{1}{50}$ - Cl. 12 m.

Island is very steep, and almost barren - rises directly up from water, and ships can come close enough to land bowsprit into the cliffs. One small spit on west side, with about a dozen houses perched on a little shelf in the rocks above it. No people were to be seen. Most of the Diomede Islanders spend the summer around Nome, Alaska, returning in the fall. Many of them have moved to Nome permanently. Population was formerly much more numerous. Caught immense numbers of Murres, auklets, etc. in summer and stored them away for winter. In winter they kill Seal and Walrus. Principal industry now is carving Walrus ivory ornaments for Nome Market.

Big Diomede Island belongs to Russia, and Little Diomede is American; population of each about the same. Island is volcanic, and crater was smoking within memory of natives now living. Fairway Rock, about mi. from Diomede was still smoking when first whalers came here. It is also a great "Bird Rock"

Oct. 11. (Fri.) Clear all day. Sunshine at intervals. Light northerly wind. Steamed slowly all day with all sail set. Passed about five miles west of Kings Island about 8.30 a.m. Sighted north end of St. Lawrence Island about 3.00 p.m. and passed about fifteen miles east of it. Large ice about 4 pm from NW corner, and small cakes (Pt. Hope Islands) a few miles from NE corner. Only a few Gulls seen in morning, but birds more numerous near St. Lawrence Islands. Large gulls (gray mantle with white-tipped primaries), a few Sea Gnail, Rhinoceros Auklets seen near ship flying about, or trying to swim out of way of ship making short dives [Small fish Black Birds with a sharp horn on upper mandible]. A few other very small black-breasted Auklets seen; also two Cormorants, Sabine Gulls.

Oct. 12 (Sat.) Cloudy all day. Strong northerly wind. Heavy sea. Passed some distance east of St. Matthews Island in afternoon, but did not see it. Few birds than usual today.

Oct. 13. (Sun.) Cloudy. Sun visible for a few minutes in afternoon. Strong N. wind. Many Gulls and Fulmars following ship all day. Saw one Fulmar which was much whiter than those which have been following ship for past week. Capt. Cottle saw three Fur Seals in water about 7.30 pm — Abreast thirty miles East of St. Pauls Island (Pribilof Islands). Tried trolling with Rubber-tailed hook for Fulmars, but caught none. Rain and snow squalls in evening. Many minute phosphorescent animals in water.

Oct. 14. (11 o'k) Cloudy morning. Dull sunshine at intervals in forenoon. Wind strong northerly. As before. From 5 pm last night to 5 am today ran 92 miles by log. Under lower topsails. Numbers of Fulmars around ship in morning. Shortened sail to lower main topsail and fore topsail, and hove to about dark — some thirty-five miles from Unalaska, as it was dangerous to approach islands at night. Wind squally, occasional flurries of rain, snow and hail.
Saw on Ketch, numbers of Gulls.

Oct. 15. (Tues). Wind N.W. Clear bright morning. Akutan Island plainly visible to Eastward (very rugged, high mountains), Unalaska Island to South — mountains snow-covered, Makushin Volcano smoking. Steamed past entrance to Dutch Harbor and into Unalaska harbor about 11:30 a.m. Schr Gloria had been in five days, had caught no more whales — total 1½ were engaged in canning bone.
Unalaska harbor is land-locked by high mountains. Mountain tops are snow-covered, but ground is bare (or covered with grass and moss) near sea level. Many Gulls (mostly young) in harbor and very tame. A few Admirals seen on rocks further out. Several Ravens seen around the village — and unusually tame for that species.
Visited Jesse Lee Home (a Methodist Episcopal missionary home school). Dr. Newhall in charge, with his wife and three other matrons and teachers. School contains about 35 children, mostly half-caste Esquimaux and Aleuts.

Oct. 16 (Wed.) Took photographs by request of children of Chas. C. Carpenter and John Seymour. Light was poor, and a slight wind made time exposures difficult

(492) * 4. Johnny Carpenter (age 5) and Mary Carpenter (age 7). The little girl is daughter of Navallerk (Blanchet Island) and granddaughter of "Roxy". 8 - 1/5 - Cloudy. 4:15 pm

(493) PS - do. 8 - 1/2 sl. 4:20 pm

(494) * 6. Maggie Seymour (daughter of Iguana (Blanchet Island). 8 - 1/5 - Cloudy. 4:30 pm

(495) * 7. do. 8 - 1/2 " "

Clear a.m. Cloudy and rain and snow squalls in afternoon and evening. Messr. Leffingwell, Carpenter and myself had boatmen ferry us across the Inlet in a, and we walked across hills to Dutch Harbor, about a mile away. Visited U.S. Naval Radio Station (wireless) - halfway between Unalaska and Dutch Harbor. Mr. Clausen in charge. Had lunch with Mr. Emil Ittner, in charge of North American Commercial Co.'s store at Dutch Harbor. The Co. is closing up business here.

Saw and [illegible] read Radio Station, and two Pribilof Swansplaters in town of Dutch Harbor. In the morning four or five Lanceolates (sp.?) alighted on Bolshoi's rigging and yards.

Oct. 17 (Thurs). Clear a.m. Cloudy p.m. Rain in evening. Light, variable breezes in harbor. Saw [illegible] a large German "tramp steamer", "Vesuvia, Hamburg", about 7000 tons, loaded with wheat, flour, salmon, and heavy deck load of lumber and into harbor; grounded in attempting to turn around and kept all hands on Bobadil busy afternoon and evening helping to straighten her around. "Vesuvia" was 17 days out of Seattle, bound for Yokohama, had encountered continued bad weather, worst seas for years in Pacific Ocean, and was obliged to put in here for coal. Crew is Japanese, Lascars, &c. with German officers.

Saw small bunch of Leucosticte in shrubs rigging again, and one Song Sparrow (Melospiza sp.) around the deck. Followed the Song Sparrow around among the dock yards, and heard him occasionally burst into full song.

Oct. 18 (Fri.). Rain in forenoon. Variable in afternoon. Rain at intervals in evening. Put some coal on board. Jefferson sky was cooling all day.

Oct. 19. (Sat.) Bright sunshine in early morning, followed by light, misty rain. Crew engaged in taking bow-bolts from hulls and putting them on deck, taking down rowing-seats, &c.

Oct. 19. (Sat.) Steamed out of Unalaska Harbor 2:30 p.m. Landmarks - Priest Rock, an erect pinnacle rock near entrance. Dutch Harbor marked from all other Fox Islands by flat-topped mountain, with sharp peak behind it - running at right angles to all other mountains here. A few Gulls and Cormorants in harbor. A school of Killer Whales, eight or more followed close to ship for some time - spouting frequently sometimes throwing high sharp vertical jet of water. Struck by north wind squall at Entrance to Unalga Pass but went through safely just before dark, lights of Unalga Wireless Station seen. Fair SW wind outside, and made good time all night.

A Norwegian Company has been whaling all summer, two small steamers with bow guns, and a large steam tender - station on Akutan Island. 317 Whales (Humpbacks and Finbacks) were taken this summer around Akutan, Unalga and Unalaska - oil rendered out and flesh and bones turned into fertilizer. At times they had more than they could handle and anchored the carcasses. Unalaska people say that they could smell the odor from Akutan whenever wind is right. Another Company is said to have caught over -

Oct. 19. (Sat.) two hundred Whales near Kodiak Island this summer. A volcanic Eruption covered Kodiak Island with ashes early in the summer, killing most of the vegetation.

Oct. 20. (Sun.) Light cloudy weather. Strong Westerly breeze, sailed all day E by S. making about 7-8 knots per hour. Saw one or two Petrels. Sperm Whales reported in morning.

Oct. 21 (Mon.) Bright sunshine all day. Strong West wind, and ran before it all day with royals set. E by S. Run for two days has been 384 miles by log, and about the same by observations. Saw Petrels.

Oct. 22 (Tues.) Cloudy all day. Wind lowered in forenoon, and backed to East in afternoon. Rain squalls in morning and ship practically hove to. Today saw two or three Sooty Albatross ("Gonay" or "Goney" of Whalers), one Puffin ("Parrot bill"), one Gull and one or two Petrels.

Oct. 23 (Wed.) Sunshine at intervals. Strong W. wind. Occasional hail squalls in morning. N. Lat. 48° 49' at noon. Heavy sea, and ship rolling badly all night, occasionally putting rail under. One boat nearly wrecked off. Saw occasional Gulls (Glaucous-winged) and two or three Sooty Albatrosses and Petrels.

Oct. 23. (Wed.) Sailed (by log) 73 miles between 9 a.m. and 5 p.m. 1475 miles from San Francisco this afternoon

Oct. 24. (Thurs.) Sunshiny morning. Strong West wind and heavy sea. Sailed 220 miles between 12 M. yesterday and 12:00 M. today. Several Black (Sooty) Albatrosses (with White ~~Crowns~~ Crowns) and several small dark Shearwaters or Fulmars seen around ship. Rain squalls at intervals.

Oct. 25. (Fri.) Bright sunshine during forenoon. Stiff West wind, heavy sea and Wave lifted up Starboard boat against davit and broke it near forward end. Saw Sooty Albatrosses. Wind lowered considerably in evening. Clear. Moon full. Crew began washing whalebone - soaking foul head by flooding main deck over night.

Oct. 26. (Sat.) Light hazy forenoon. Clear pm. Light W. West wind. Crew washing whalebone all day.

(496) *8. Washing Whalebone. 8-1/00-B.S. 1 30 pm.

(497) *9. Whalebone drying along Ships rail 8-1/00-B.S. 1 30 pm.

(498) *10 Sammy, Elect and Nellie Hogg. Children of Capt. Wm. Hogg 8-1/00-B.S. pm.

A pair of Sooty Albatrosses followed ship all day - steering without moving wings. Rain during most of night. Thermometer averaged 56° and 58° F. during day. Wind warm in evening

Oct. 27 (Sun). Cloudy, rainy morning. Light S.W. wind. Sailing about 5 knots per hour. Bright sunshine 10 a.m. Breeze freshened to 7½ knots. Two Sooty Albatrosses and one dark Stormwater followed ship all day. Very seldom Albatross rested in water. A female Mallard Duck appeared about noon and followed ship for some time - often pursued on the wing by two or three Albatrosses. Several times the Duck alighted in the water and was driven up by an Albatross which dropped down behind her and attempted to peck from rear.

Strong wind about 1:00 p.m. with rain squall. Observations today make us about 650 miles West of nearest land on Californ. Coast and about 750 miles from San Francisco.

Strong wind in evening with occasional puffy squalls. Clear.

Oct. 28 (Mon). Clear. Strong westerly wind. Crew finished washing Whalebone today. Three Sooty Albatrosses following ship.

Photos. Oct. 27.

(499) 1. Furling Main top gallant and Royal. Belvedere. S - too - B.S. 11:00 a.m.

(500) 2. Steward Jack Thornhill. Belvedere. S - too - B.S. 11:00 a.m.

Oct. 29 (Tues). Clear. Light southerly wind. Warm

(501) ** Sparred (Experimenting with shutter)

002 ** Pressing, and bidding, Whalebone weighing

S - too B - 2:30 p.m.

Oct 29 (Tues). Started steaming today. 470 miles from Point Reyes. Steamer sighted in distance

Oct. 30. (Wed). Clear all day. Light southerly wind. Rain in evening. Sick all day today - diarrhoea, cramps and headache. Albatross (5 or 6) following ship all day.

Whalebone all baled up and weighed yesterday. 1910 catch - 9 Whales. 15 150 lbs.
1911 Catch 12 - 18 700 "
33 850 "

Also 900 lbs. of oil taken but blubber not taken from more than half the whales.

Oct. 31 (Wed.) Clear morning. Light SE wind. Small schooner seen to Southward about 11:00 a.m.

Jeffries will made two exposures of myself in Coronation Gulf Station.
#5. self - two 8 - BS 15 m
#6 - " two 8 BS "

Nov. 1. (Thurs.) Cloudy morning. Slightly foggy in early morning. Entered Golden Gate about 7:00 a.m. - and was met by Quarantine boat. Ship passed inspection - anchored in midstream

Nov. 1. (Thurs.) Went ashore in launch brought out by Stokes & Friedmans Whalers Outfitters, 25 Jackson St. Found letters at Stokes & Friedmans and % Associated Press. Was interviewed at wharf by two reporters and later at hotel by representatives of Associated Press and other reporters. Mr. Leffingwell and myself put up at Continental Hotel, Ellis Street near Powell.

Nov. 2-4 (Fri.) Got personal baggage ashore. Went up to Customs House with Capt. Cottle while he was getting his business straightened out. My stuff was entered on ship's manifest as sixty cases of scientific specimens. Much of this had to be repacked according to instructions from New York, and I got permission to go on board Bluedon at Howard Street Pier No. 1. and repack whatever was necessary.

Nov. 5 (Tues.) — Today (Election day) spent most of day chasing around City after large packing boxes and cases for large heads (Cambon), sawdust, etc, for packing stone pots, lamps, and other fragile articles

Nov. 6. (Wed.) Took out insurance policy for two thousand dollars on Collections in

Nov. 7. (Thurs. Saturday) Succeeded in finally getting goods released from Belvedere by Customs Inspector and delivered to Southern Pacific Ry Company to be shipped in bond to New York — sixty-one cases (and packages) of specimens etc. Consigned to the American Museum of Natural History, New York City.

Shipped suit case containing one box note books and one box negatives and films to New York via Wells Fargo Express Company.

Nov. 26. (Tues.) Left San Francisco 7:30 p.m. on China and Japan Mail, Southern Pacific, Union Pacific, to Omaha. Stopped off for a few days to visit my home in Iowa and reached New York on N.Y. Central Railway 5:05 p.m. Nov. 27th.

Nov. 27. (Wed.) Arrived in New York City, and reported at American Museum of Natural History, having been gone since April 1908.

Identifying marks of different species of Whales, according to Capt. Stephen F. Cottle, S.S Belvedere:

"Humpback" - Has appearance of short, broken-off dorsal fin, set far back. Baleen is short. Spout resembles Bowhead.

"Fin-back" had sharp trigger fin on back.

Devil-fish or "California Gray Whale" Similar to "fin-back" with lowered fin. 40-barrel whale. Observed from Lower California to Kodiak.

"Killer" - usually with high sharp dorsal fin.

Sperm Whale - has true teeth. All of others (above) are "Whalebone" Whales. Sperm Whale has single spout hole - to left and forward - clear, white spout. 50 to 150 barrels of oil. Spermaceti taken from head. Bones very hard and dense, resembling ivory

"Sulphur-bottom" Whale – has small humps on top; lighter in color; belly always white, corrugated lengthwise.

Sets of Birds' Eggs Collected during Season of 1912 by R.M. Anderson

Set No.	Name	Locality	Date
160 N4	Chen hyperborea ~~hyperborea~~ nivalis	Little Whale Bluff, Franklin Bay, N.W.T.	June 8, 1912
161 N2	Actodromas bairdii	E. of Whale Bluff " "	11, "
162 N3	"	" " " " " "	13 "
163 1	Branta nigricans	" " " " " "	" "
164 5	Archibuteo l. s-johannis	" " " " " "	" "
165 N5	Anthus ~~pensilvanicus~~ rubescens	" " " " " "	16, "
166 N5	Calcarius ~~sp~~ lapponicus lapponicus	Smoking Mts., Franklin Bay.	" 17, "
167 3	Larus ~~glaucus~~ hyperboreus	" " " " " "	" "
168 N8	Lagopus rupestris	" " " " " "	" "
169 N9	" "	E of Whale Bluff " " "	18 "
170 6	Chen hyperborea ~~nivalis~~ hyperborea	Little Whale Bluff " "	" 19 "
171 N4	Branta nigricans	" " " " " "	" "
172 3	~~Phalaropus~~ Lobipes lobatus	" " " " " "	" "
173 N4	Branta nigricans	" " " " " "	21, "
174 N5	" "	" " " " " "	" "
175 N2	Stercorarius longicaudus	" " " " " "	" "
176 N3	Chen hyperborea ~~nivalis~~ hyperborea	" " " " " "	" "
177 N4	~~Crymophilus~~ Phalaropus fulicarius	" " " " " "	" "
178 N4	"	" " " " " "	" "
179 N4	" "	Immaernirk Lake " "	" 22 "
180 N4	~~Phalaropus~~ Lobipes lobatus	" " " " " "	" "
181 N3	Harelda hyemalis	" " " " " "	" "
182 N5	Calcarius ~~sp~~ lapponicus lapponicus	" " " " " "	" "

Set No	Name	Locality	Date
183/1	Garia pacifica	Immaernirk L. Franklin Bay	June 22, 1912
184/2	Sterna ~~paradisæa~~ arctica	" " "	" " "
185/2	"	" " "	" " "
186/2	Xema sabinii	" " "	" " "
187/2	" "	" " "	" " "
188/1	" "	" " "	" " "
189/N5	Branta nigricans	" " "	" " "
190/N5	" "	" " "	" " "
191/N4	" "	" " "	" " "
192/N4	" "	" " "	" " "
193/N4	" "	" " "	" " "
194/N2	Stercorarius longicaudus	E. of C. Bathurst	" 23, 19
195/N6	Branta nigricans	Little Lake Bluff	" 25, "
196/1	Xema sabinii	Immaernirk L.	" 22, "
150/N6	Branta nigricans	" " "	" 25 "
151/N2	Garia pacifica	" " "	" " "
152/2	Garia ~~pacifica~~ stellata	" " "	" " "
153/N3	Xema sabinii	" " "	" " "
154/N3	" "	" " "	" " "
155/3	" "	" " "	" " "
156/3	" "	" " "	" " "
157/2	" "	" " "	" " "
158/2	" "	" " "	" " "

Set No.	Name	Locality	Date
159/N4	Branta nigricans	Immaernirk L., Franklin Bay.	June 28, 1912
197/N2	Stercorarius pomarinus	Baillie Island.	July 3, "
198/N4	Charadrius dominicus	" "	" " "
199/2	Stercorarius longicaudus	Cape Bathurst.	" 6 "
200/1	"	" "	" " "
201/N4	Actodromas bairdii	" "	" " "

Specimens taken and described in this book:

Coll. No.	Name.	Locality.	Date.
751.	♂ Rabbit,	Horton River, N.W.T.	Feb. 17, 1912
752.	♂ Caribou.	Langton Bay. "	" 26. "
753.	♀ "	" " "	Mar. 6. "
754.	♀ Barren Gr. Bear (Y.S.)	" "	July 30, 1911
755.	♂ jv. "	" " "	" " "
756.	Silver-gray Fox (skull, sk.)	Horton River.	Mar. 24 "
757	" " " (skull)	Mouth of " "	1910-11.
758.	Gavia adamsii (Palaiyat)	Langton Bay.	1911.
759.	♂ Somateria v-nigra.	" "	"
760.	♀ "	" "	"
761.	♂ Harelda hyemalis	" "	"
762.	♀ Marila affinis.	" "	"
763.	Falco per. anatum	" "	"
764.	♀ jv. White Fox	" "	1911
765.	♂ Mouse	Franklin Bay.	Mar. 20, 1912
766.	♂ Lemming.	Smoking Mts. Frank. B.	" 23, "
767.	♂ "	Melville Mts., Langton B.	Apr. 10 "
768.	♀ Wolverine (skull)	Horton River. N.W.T.	" 16, "
769.	♂ Red Fox (skull)	" "	Jan. 3. "
770.	♂ ♀ Arctic Fox (skull) ad.	" "	" 9 "
771.	" jv. "	" "	" Jan. "
772.	" " "	" "	" " "
773.	♂ Wolverine (skull)	" "	Feb. 16-17. "

Coll. No.	Name	Locality	Date
774.	♂ Barren Ground Bear (Grizzly) Ursus crassus MacFarlane N.W.T.	Langton Bay	June 1911
775.	♀ Mouse	Langton Bay House.	Dec. "
776.	♀ "	" " "	" "
777.	♀ "	" " "	" "
778.	♀ "	" " "	" "
779.	♀ "	" " "	" "
780.	♀ "	" " "	" "
781.	♀ "	" " "	" "
782.	♀ "	" " "	" "
783.	♀ "	" " "	" "
784.	(Geol.) Rock.	E. of White Bluff, Franklin Bay	May 10. 191
785.	" "	" " " "	" " "
786.	" "	" " " "	" " "
787.	" "	Harrowby Bay, Liverpool Bay	" 24, "
788.	" "	" "	" " "
789.	" "	" "	" " "
790.	♂ Lagopus rupestris,	Harrowby Bay.	" 23. "
791.	♀ "	"	" 24. "
792.	♂ "	"	" 27. "
793.	♂ Asio accipitrinus	"	" 29. "
794.	♂ Otocoris alpestris hoyti	"	" " "
795.	♂ Archibuteo lagopus s.-johannis	"	" " "
796.	♂ Shrew	"	" " "
797.	♂ Nyctea nyctea	Cape Bathurst	June 1. "
798.	Arrow shafts. (Grave)	Harrowby Bay.	May 31. "
799.	Seal probe	"	" " "
800.	"	"	" " "

Coll. No.	Name	Locality	Date
801.	Bone-Snow Knife	Cape Bathurst, N.W.T.	June 5, 1912.
802.	♂ Chen hyperboreus, Hyperboreus	Lit. Whale Bluff. Franklin Bay	" 8, "
803.	♀ " "	" " " "	" " "
804.	♀ Stercorarius longicaudus.	" " "	" " "
805.	♂ Mouse (gray.	E. of Whale Bluff.	" " 11, "
806.	♂ Actodromas bairdii	" " "	" " "
807.	♂ Tringa maculata	" "	" " "
808.	♂ ~~Crymophilus~~ Phalaropus fulicarius	" "	" " "
809.	♀ " "	" "	" " "
810.	♂ Somateria spectabilis.	" "	" " "
811.	♂ Harelda hyemalis.	" "	" " "
812.	Archaeological Spec. Old grave	" "	" " "
813	" " Old ruins	" "	" " "
814	♂ Xema sabinii	" "	" 13, "
815.	♂ " "	" "	" " "
816.	♀ " "	" "	" " "
817.	♂ Charadrius dominicus	" "	" " "
818.	♀ Stercorarius pomarinus (Pomarine Jaeger)	" "	" " "
819.	♀ Anthus ~~pensilvanicus~~ rubescens	" "	" 16, "
820.	♀ Stercorarius pomarinus,	Smoking Mts. Franklin Bay.	" 17, "
821.	♀ "	Smoking Mts.	" " "
822.	♂ Calcarius, ~~of~~ Lapponicus Lapponicus	Smoking Mts	" " "
823.	♀ " " "	Smoking Mts.	" " "
824	♀ Lagopus rupestris	Smoking Mts.	" " "
825.	♀ " "	E. of Whale Bluff	" " 18 "

300.

Coll. No.	Name	Locality	Date
826.	♂ Mouse (Arvicola?)	E. of Whale Bluff, Franklin Bay,	June 17, 19
827.	♂ Gavia ~~arctica~~ pacifica	Little Whale Bluff. " "	" 19 "
828.	♀ "	" " " " " "	" " "
829.	Bone Snow Knife,	Kuoruk Creek " "	" 18 "
830.	♂ Crymophilus fulicarius.	L. Whale Blf. " "	" 21 "
831.	♂ Stercorarius	" " " " "	"
832.	♀ "	" " " " "	" " "
833.	Potsherd (fragment) (clay).	E. of Whale Bluff " "	" 15 "
834.	Fossil horn (Bos sp.)	E. of Cape Bathurst. " "	" 22 "
835.	♀ Stercorarius longicaudus,	E. of Cape Bathurst " "	" 23 "
836.	♂ ~~Crymophilus~~ Phalaropus fulicarius,	Immaernirk Lake " "	" 22 "
837.	♂ Branta nigricans.	" " " " "	"
838.	♀ "	" " " " " "	" " "
839.	♂ Lagopus rupestris,	E. of Cape Bathurst " "	" 23 "
840.	♂ Asio accipitrinus,	Baillie Island	" 20 "
841.	♀ Stercorarius longicaudus	" "	" " "
842.	Archaeological sk. (from Nauyavuk)	" "	" 25 "
843.	" "	(" Muñalina) Cape Bathurst.	" 27 "
844.	♀ Somateria ~~mollissima borealis~~ V-nigra [head]	" "	" 26 "
845.	♂ Lemming (?) (red).	E. of Cape Bathurst. " "	" 28 "
846.	♀ "	" " " " " "	" " "
847.	♂ "	" " " " " "	" " "
848.	♂ Otocoris alpestris hoyti.	" " " "	" 29 "
849.	♂ Gavia pacifica	Immaernirk L. Franklin Bay	" 28 "
850.	♀ Charadrius dominicus.	Baillie Island.	July 3. "
851.	♂ Stercorarius parasiticus,	Cape Bathurst.	June 28 "
852.	♂ " longicaudus,	" "	July 6. "
853.	♀ "	" " " "	" " "
854.	♂ "	" " " "	" " "
855.	♂ Lagopus rupestris	" " "	" "
856.	♂ Tryngites subruficollis	" " "	"
857.	♂ "	" " "	" "

Coll. No.	Name	Locality	Date
858.	♀ Actodromas bairdii.	Cape Bathurst.	July 6, 1912.
859.	♀♂ Charadrius dominicus.	" "	" " "
860.	♀ juv.	" "	" " "
861.	♀ "	" "	" " "
862.	Sex? "	" "	" " "
863.	♂ "	" "	" " "
864.	♂ Somateria v-nigra.	" "	" 11, "
865.	(Geol.). Cliffs.	Franklin Bay, 15 mi. SE.	Horton R. May 6. "
866.	" "	" "	" " "
867.	" "	" "	" " "
868.	" "	" "	" " "
869.	" "	" "	" " "
870.	" "	" "	" " "
871.	" "	" 5 mi. N.	Horton R. May 16. "
872.	" "	" "	" " "
873.	" Smoking Mts.	" 15 mi. NW	" " "
874.	" "	" "	" " "
875.	" West "	" 20 "	" " "
876.	" "	" "	" " "
877.	" "	" "	" " "
878.	" "	" "	" " "
879.	" ~~Head of Liverpool~~ (4 specimen)	Burning Cliff " 15 mi. SE.	" " 6 "
880.	" Smoking Hills	" 10-15 mi. NW	" " 16 "
881.	" "	" "	" " "
882.	" "	" "	" " "
883.	" "	" 5 mi. N.	" " "
884.	" "	" 15 " SE	" " 6 "
885.	Archaeological.	Trie Kindle.	Baillie Isl. July 25 1912.
886.	Horned Puffin (Tasawanna)	"	" Aug. 17. "

Coll. No	Name	Locality	Date.
887.	Ad. Lagopus Lagopus.	King Point, Yukon Ter.	Aug. 27. 19
888.	♂ " "	" "	" " "
889.	♀ " "	" "	" " "
890.	♂ jur. " "	" "	" " "
891.	(Salvelinus malma) Salmon Trout.	Herschell Isl.	" 24. "
892.	Whitefish	" "	" " "
893.	♀ Bowhead Whale (eye).	Off Sabine Pt.	" 31. "
894.	"	" "	" " "
895.	Uria lomvia pirrai (Pallas) Murre (P.R.W.M.P.)	Herschell Island.	1909-1910
896.	♂ Regulus calendula.	Harrison Bay, Arct. Alask.	Sept. 24. 19
897.	♂ Cross Fox.	Collected by Palaiyak	Dec. 27. 19
898.		Langton Bay. 1910.	
899.	♂ Caribou jur.	East end Langton Bay.	Feb 24. 1911
900.		White fawn. Killed by Palaiyak.	
901.	Polar Bear. (V. Stefansson Coll.)	Langton Bay.	July. 1911.
902.	Zoological	SW. Corner Cracroft Bay.	Sept. 10, 191
903	" Del.	E. side Franklin Bay.	" " "
904.	" Gal. W. side Franklin " jur.	West side Franklin Bay.	Jan. 23, 1912
905.	" " East " Franklin Bay.		Sept. 10, 1911
906.			
907.			
908.			
909.			
910.			
911.			
912.			
913.			
914.			

Fish identified by John T. Nichols
American Museum of Nat. History

"Whitefish" Great Bear Lake Herring. Leucichthys lucidus (Richardson)
Salmon Trout Salvelinus malma (Walbaum).

Starry Flounder (Platichthys stellatus (Pallas)
Laughton Bay
Jackfish" Pike. Esox lucius Linnaeus
Long-nosed Sucker. Catostomus catostomus (Forster)
Arctic Smelt Osmerus dentex Steindachner
Long. Titallik Lota maculosa (LeSueur) Baillie Island.
Lake Trout Cristivomer namaycush (Walbaum).

304